LBT-LX9AV/LX10AV/LX90AV

HCR-LX9AV/LX10AV/LX90AV

SERVICE MANUAL

AEP Model
UK Model
LBT-LX9AV
E Model
Australian Model
LBT-LX10AV
US Model
LBT-LX90AV

- LBT-LX9AV/LX10AV/LX90AV are composed of following models. As for the service manual, it is issued for each component model, then, please refer to them.

COMPONENT MODEL NAME

	LBT-LX9AV	LBT-LX10AV	LBT-LX90AV
COMPACT DISC DECK RECEIVER SYSTEM	HCD-LX9AV	HCD-LX10AV	HCD-LX90AV
SPEAKER SYSTEM(FRONT)	SS-LX9AVG	SS-LX10AV/10AVG	SS-LX90AV
SPEAKER SYSTEM(CENTER)	SS-CT200		SS-CT200G
SPEAKER SYSTEM(REAR)	SS-RS200		SS-RS200G

- Abbreviation

SP : Singapore EA : Saudi Arabia
MY : Malaysia AR : Argentine
MX : Mexican AUS : Australian

- HCR-LX9AV/LX10AV/LX90AV are composed of HCD-LX9AV, LX10AV, LX90AV, SS-LX9AVG, LX10AV, LX10AG, LX90AV, SS-CT200, CT200G, SS-RS200 and RS200G.

SPECIFICATIONS

General

Power requirements
North American model: 120 V AC, 60 Hz
European model: 230 V AC, 50 / 60 Hz
Mexican model: 120 V AC, 50 / 60 Hz
Australian models: 230 - 240 V AC, 50 / 60 Hz
Other models: 120 V, 220V, or 230 - 240 V AC, 50 / 60 Hz
Adjustable with voltage selector.

Power consumption
(LBT-LX90AV) 190 watts
(LBT-LX10AV) 230 watts
(LBT-LX9AV) 200 watts

Supplied accessories
AM loop antenna (1)
FM wire antenna (1)
Speaker cords (2)
Remote (1)
R6 (size AA) batteries (2)

Design and specifications are subject to change without notice.

PARTS LIST

Part No.	Description	Remark
	ACCESSORIES & PACKING MATERIALS **********	
1-418-230-11	COMMANDER, STANDARD (MR-SR11AV)	
1-501-374-11	ANTENNA, LOOP	
1-501-659-41	ANTENNA (FM)(EXCEPT AEP, UK, CIS)	
1-501-804-11	ANTENNA (FM)(AEP, UK, CIS)	
4-227-076-11	MANUAL, INSTRUCTION (ENGLISH)	
4-227-076-21	MANUAL, INSTRUCTION (FRENCH)(EA)	
4-227-076-31	MANUAL, INSTRUCTION (SPANISH)(AR, MX)	
4-227-076-41	MANUAL, INSTRUCTION (FRENCH, SPANISH)(AEP, E, SP, MY)	
4-227-076-51	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH)(AEP)	
4-227-076-61	MANUAL, INSTRUCTION (ITALIAN, PORTUGUESE)(AEP)	
4-227-076-71	MANUAL, INSTRUCTION (POLISH, RUSSIAN)(CIS)	
4-227-076-81	MANUAL, INSTRUCTION (ARABIC)(EA)	
4-227-076-91	MANUAL, INSTRUCTION (CHINESE)(SP, MY)	
4-227-077-11	MANUAL, INSTRUCTION (CZECH)(CIS)	
4-227-077-21	MANUAL, INSTRUCTION (HUNGARIAN)(CIS)	
4-227-077-31	MANUAL, INSTRUCTION (GREEK)(CIS)	
4-227-077-41	MANUAL, INSTRUCTION (TURKISH)(CIS)	
4-210-254-01	CUSHION (FOOT)(FRONT SPEAKER)	
4-988-173-01	COVER, BATTERY (FOR RM-SR11AV)	

COMPACT Hi-Fi STEREO SYSTEM

SONY®

9-929-200-11

Sony Corporation
Home Audio Division Company

2000C001681-1
Printed in Japan ©2000.3
Published by Quality Assurance Dept.

HCD-LX9AV/LX10AV/LX90AV

SERVICE MANUAL

US Model
HCD-LX90AV
AEP Model
UK Model
HCD-LX9AV
E Model
Australian Model
HCD-LX10AV

Photo: HCD-LX9AV

- HCD-LX9AV/LX10AV/LX90AV are the Amplifier, CD player, Tape Deck adn Tuner section in LBT-LX9AV/LX10AV/LX90AV

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol □□ are trademarks of Dolby Laboratories Licensing Corporation.

CD Section	Model Name Using Similar Mechanism	HCD-DR8AV/ W900AV
	CD Mechanism Type	CDM37M-5BD32L
	Base Unit Name	BU-5BD32L
	Optical Pick-up Name	KSS-213D/Q-NP
Tape deck Section	Model Name Using Similar Mechanism	HCD-DR8AV/ W900AV
	Tape Transport Mechanism Type	TCM-230PWR1

SPECIFICATIONS

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, both channels driven, from 120 – 10,000 Hz; rated 110 watts per channel minimum RMS power, with no more than 10% total harmonic distortion.

Center Speaker:
Continuous RMS power output (Reference)
45 watts
(8 ohms at 1 kHz, 10% THD)

Rear Speaker:
Continuous RMS power output (Reference)
45 + 45 watts
(8 ohms at 1 kHz, 10% THD)

LBT-LX9AV
Front Speaker:
DIN power output (Rated)
90 + 90 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
120 + 120 watts
(6 ohms at 1 kHz, 10% THD)
Music power output (Reference)
200 + 200 watts
(6 ohms at 1 kHz, 10% THD)

Center Speaker:
DIN power output (Rated)
30 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
40 watts
(8 ohms at 1 kHz, 10% THD)
Music power output (Reference)
60 watts
(8 ohms at 1 kHz, 10% THD)

Rear Speaker:
DIN power output (Rated)
30 + 30 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
40 + 40 watts
(8 ohms at 1 kHz, 10% THD)
Music power output (Reference)
60 + 60 watts
(8 ohms at 1 kHz, 10% THD)

— Continued on next page —

COMPACT HI-FI STEREO SYSTEM

SONY®

LBT-LX10AV

Front Speaker:
The following measured at AC 120/220/240 V, 50 Hz
DIN power output (Rated)
150 + 150 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
200 + 200 watts
(6 ohms at 1 kHz, 10% THD)

Center Speaker:
DIN power output (Rated)
35 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
50 watts
(8 ohms at 1 kHz, 10% THD)

Rear Speaker:
DIN power output (Rated)
35 + 35 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
50 + 50 watts
(8 ohms at 1 kHz, 10% THD)

Inputs
DJ MIX IN* (phono jacks): sensitivity 250 mV, impedance 47 kilohms
GUITAR IN (phono jack): sensitivity 75 mV, impedance 470 kilohms
PHONO IN (phono jacks): sensitivity 3 mV, impedance 47 kilohms
MIX MIC (phone jack): sensitivity 1 mV, impedance 10 kilohms
VIDEO1 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms
VIDEO2 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms
MD IN (phono jacks): sensitivity 450 mV, impedance 47 kilohms
DVD INPUT
FRONT, REAR, CENTER, WOOFER (phono jacks): sensitivity 450 mV, impedance 47 kilohms

Outputs
DJ MIX OUT* (phono jacks): sensitivity 250 mV, impedance 1 kilohms
PHONES (stereo phone jack): accepts headphones of 8 ohms or more
VIDEO OUT (phono jack): voltage 250 mV, impedance 1 kilohm
MD OUT (phono jacks): voltage 250 mV, impedance 1 kilohm
WOOFER OUT (phono jack): voltage 1 V, impedance 1 kilohm
FRONT SPEAKER: accepts impedance of 6 to 16 ohms
CENTER SPEAKER: accepts impedance of 8 to 16 ohms
REAR SPEAKER: accepts impedance of 8 to 16 ohms

* For European, North American, and Mexican models only.

Video section

Inputs
VIDEO1 IN (phono jacks): 1 V p-p, 75 ohms
VIDEO2 IN (phono jacks): 1 V p-p, 75 ohms

Output
VIDEO OUT (phono jack): 1 V p-p, 75 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB

CD DIGITAL OUT
(square optical connector jack, rear panel)
Wave length: 660 nm
Output level: –18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (±3 dB), using a Sony TYPE I cassette 40 – 14,000 Hz (±3 dB), using a Sony TYPE II cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	
North American model:	87.5 – 108.0 MHz (100 kHz step)
Other models:	87.5 – 108.0 MHz (50 kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
Pan- American model:	530 – 1,710 kHz (with the tuning interval set at 10 kHz) 531 – 1,710 kHz (with the tuning interval set at 9 kHz)
European and Middle Eastern model:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the tuning interval set at 9 kHz) 530 – 1,710 kHz (with the tuning interval set at 10 kHz)
Antenna	AM loop antenna, External antenna terminals
Intermediate frequency	450 kHz

General

Power requirements	
North American model:	120 V AC , 60 Hz
European model:	230 V AC, 50/60 Hz
Mexican model:	120 V AC , 50/60 Hz
Australian model:	230 – 240 V AC, 50/60 Hz
Other models:	120 V, 220 V, or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption	
(LBT-LX90AV)	190 watts
(LBT-LX10AV)	230 watts
(LBT-LX9AV)	200 watts
Dimensions (w/h/d)	Approx. 356 × 425 × 440 incl. projecting parts and controls
Mass	
(LBT-LX90AV)	Approx. 14.1 kg
(LBT-LX10AV)	Approx. 15.7 kg
(LBT-LX9AV)	Approx. 14.5 kg
Supplied accessories	AM loop antenna (1) FM wire antenna (1) Speaker cords (2) Remote (1) R6 (size AA) batteries (2)

Design and specifications are subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

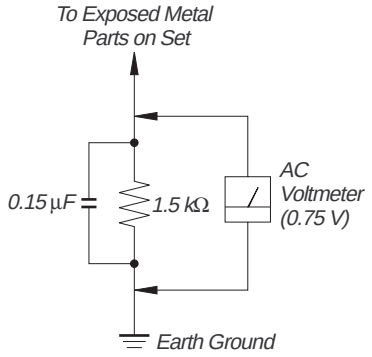


Fig. A. Using an AC voltmeter to check AC leakage.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG. WENN ABDECKUNG GEÖFFNET UND SICHEREITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SECTION 2
GENERAL

LOCATION OF CONTROLS
– Front Panel –

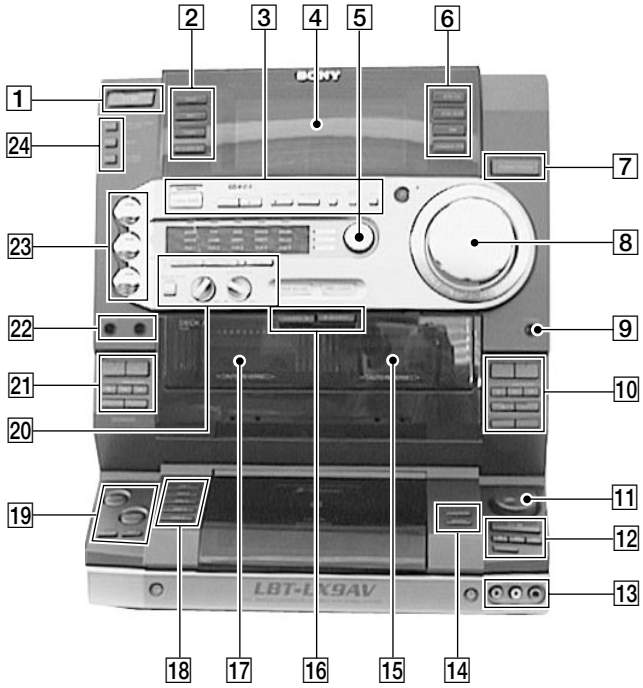


Photo: HCD-LX9AV

1 I/⏻ (POWER) button
2 DAILY button
REC button
SLEEP button
🕘/CLOCK SET button
3 TUNER/BAND button
TUNING +/– button
ENTER/NEXT button
TUNER MEMORY button
STEREO/MONO button
TUNING MODE button
PTY button
4 Display
5 ▲/▶/▼/◀ button
6 SYNC EQ button
SYNC BASS button
SURROUND button
MIX GUITAR/KARAOKE button
7 FUNCTION button
8 VOLUME control
9 PHONES jack
10 DECK B operating button
◁ button ▷ button ■ button
◀◀ button ▶▶ button ❚❚ button
● REC button HI SPEED DUB button
CD SYNC button
11 I◀◀ AMS ▶▶I control
12 CD operating button
▷ ❚❚ button ■ button ◀◀ button
▶▶ button DISC SKIP button
13 VIDEO 2 INPUT jack
14 PLAY MODE button
REPEAT button
15 DECK B
16 ⏏ A EJECT
⏏ B EJECT
17 DECK A
18 DISC1-5 button
19 LOOP button
FLASH button
NON-STOP button
EDIT button
20 SUPPER WOOFER MODE button
MIC LEVEL control
GUITAR LEVEL contro
21 DECK A operating button
◁ button ▷ button ■ button
◀◀ button ▶▶ button
DIRECTION button
DOLBY NR button
22 MIC MIX jack
GUITAR jackl
23 EFFECT button
GROOVE button
SUPER WOOFER button
24 POWER SAVE/DEMO (STAND BY) button
DISPLAY button
SPECTRUM ANALYZER button

– Rear Panel –

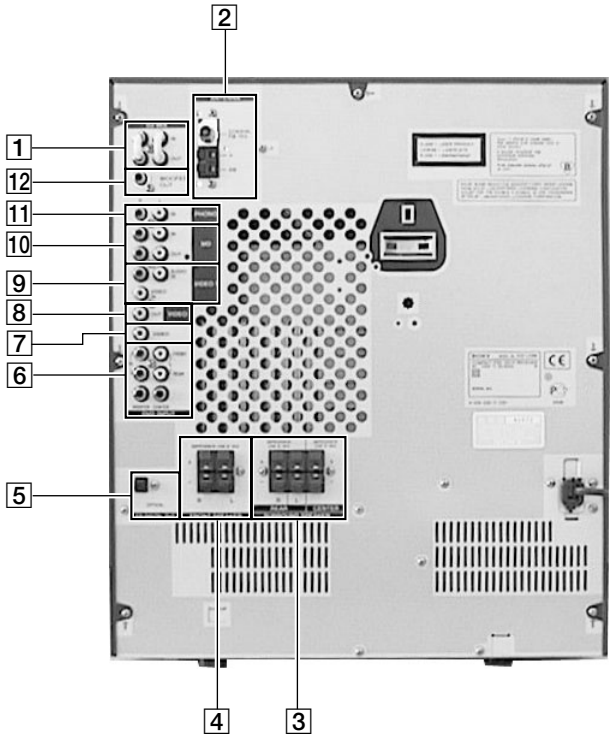


Photo: HCD-LX9AV

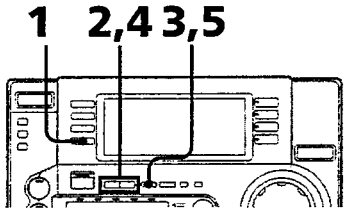
1 DJ MIX jack
2 ANTENNA terminal
3 SURROUND SPEAKER terminal
4 FRONT SPEAKER terminal
5 CD DIGITAL OUT terminal
6 DVD INPUT FRONT jack
DVD INPUT REAR jack
DVD INPUT WOOFER jack
DVD INPUT CENTER jack
7 DVD INPUT VIDEO jack
8 VIDEO OUT jack
9 VIDEO 1 jack
10 MD IN/OUT jack
11 PHONO IN jack
12 WOOFER OUT jack

This section is extracted from instruction manual.

Step 3: Setting the time

You must set the time before using the timer functions. The clock is on a 24-hour system for European models, and a 12-hour system for other models.

The 24-hour system model is used for illustration purposes.

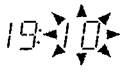


1 Press ⏲/CLOCK SET.
The hour indication flashes.

2 Press TUNING +/– to set the hour.

3 Press ENTER/NEXT.
The minute indication flashes.

4 Press TUNING +/– to set the minute.



5 Press ENTER/NEXT.
The clock starts.

Step 3: Setting the time (continued)

Tip

If you make a mistake, start over from step 1.

To change the time

The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

1 Press ⏲/CLOCK SET.
2 Press TUNING +/– to select SET CLOCK.
3 Press ENTER/NEXT.
4 Perform steps 2 through 5 in the previous explanation.

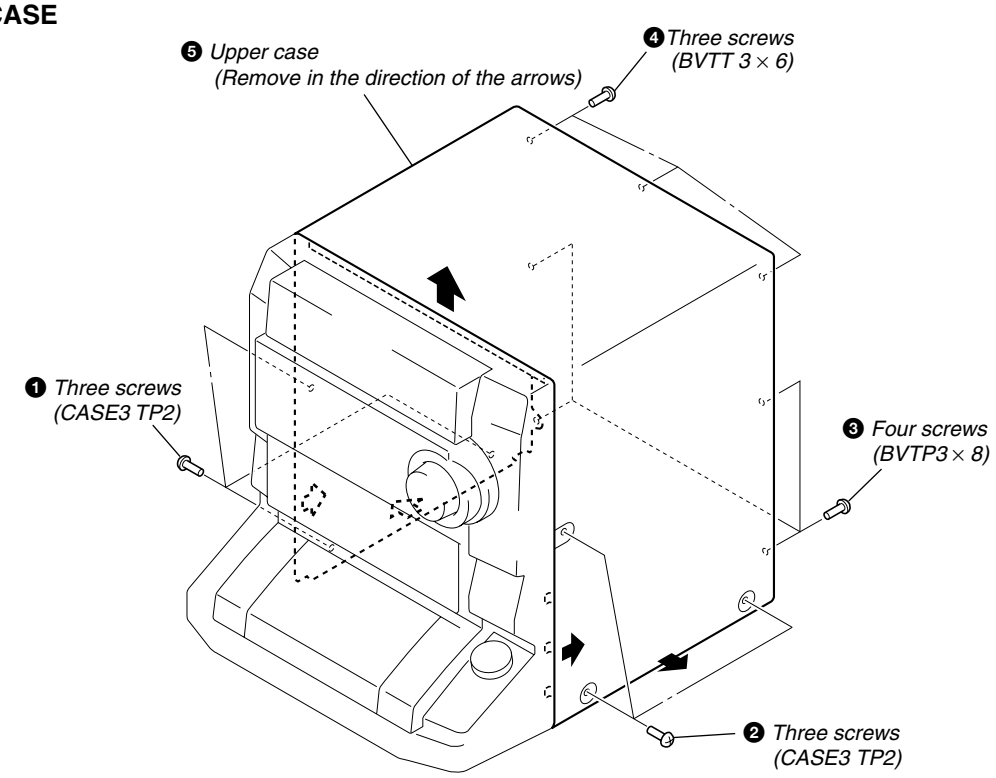
Notes

- You cannot set the time in Power Saving mode (LX50/LX30/LX5 only, see page 10).
- The clock setting is canceled when you disconnect the power cord or if a power failure occurs.

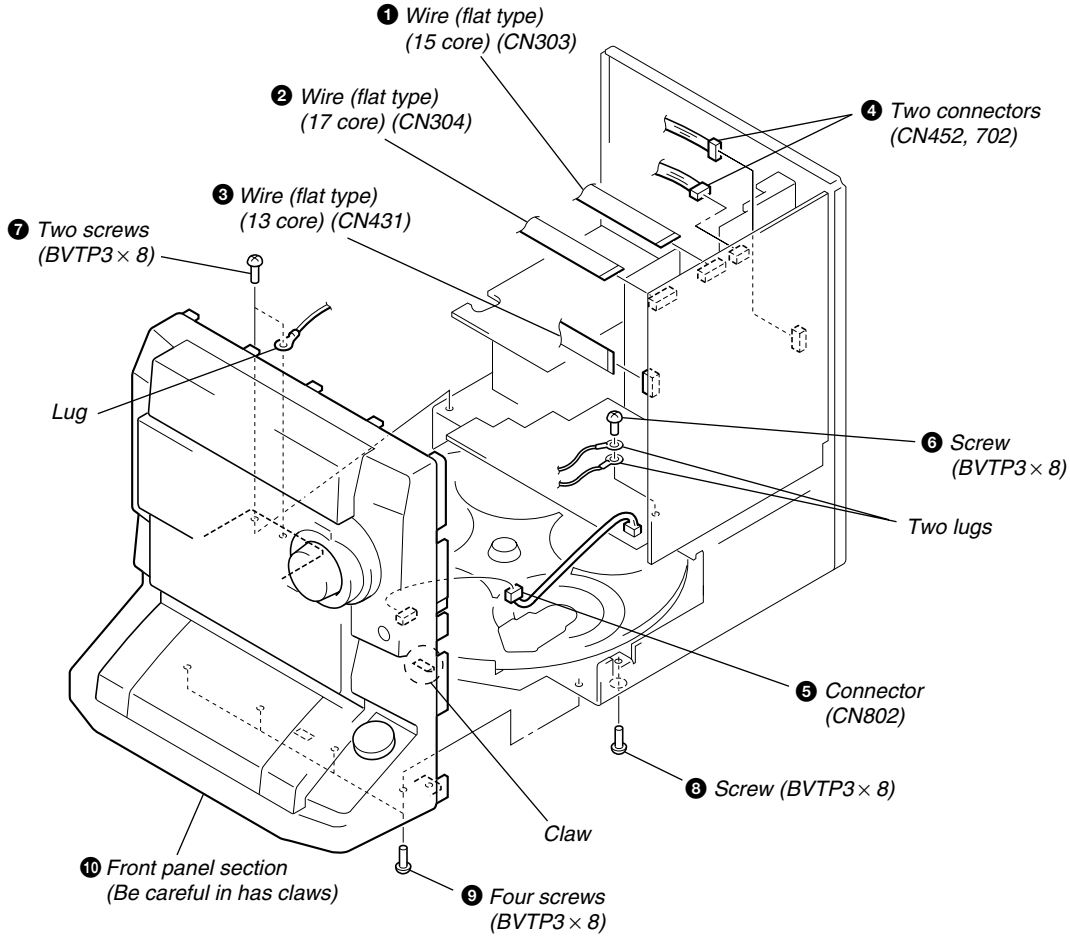
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

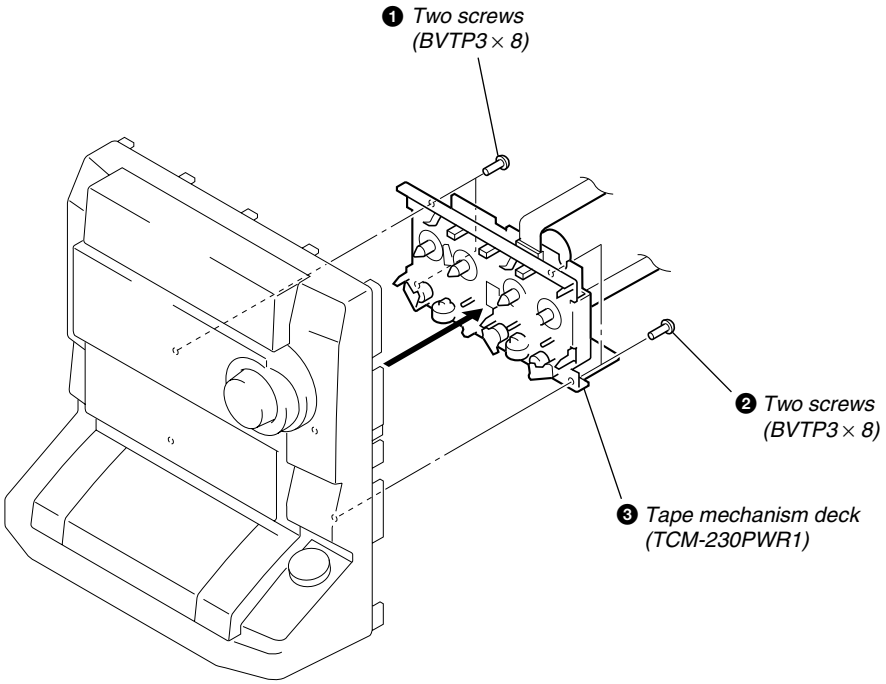
3-1. UPPER CASE



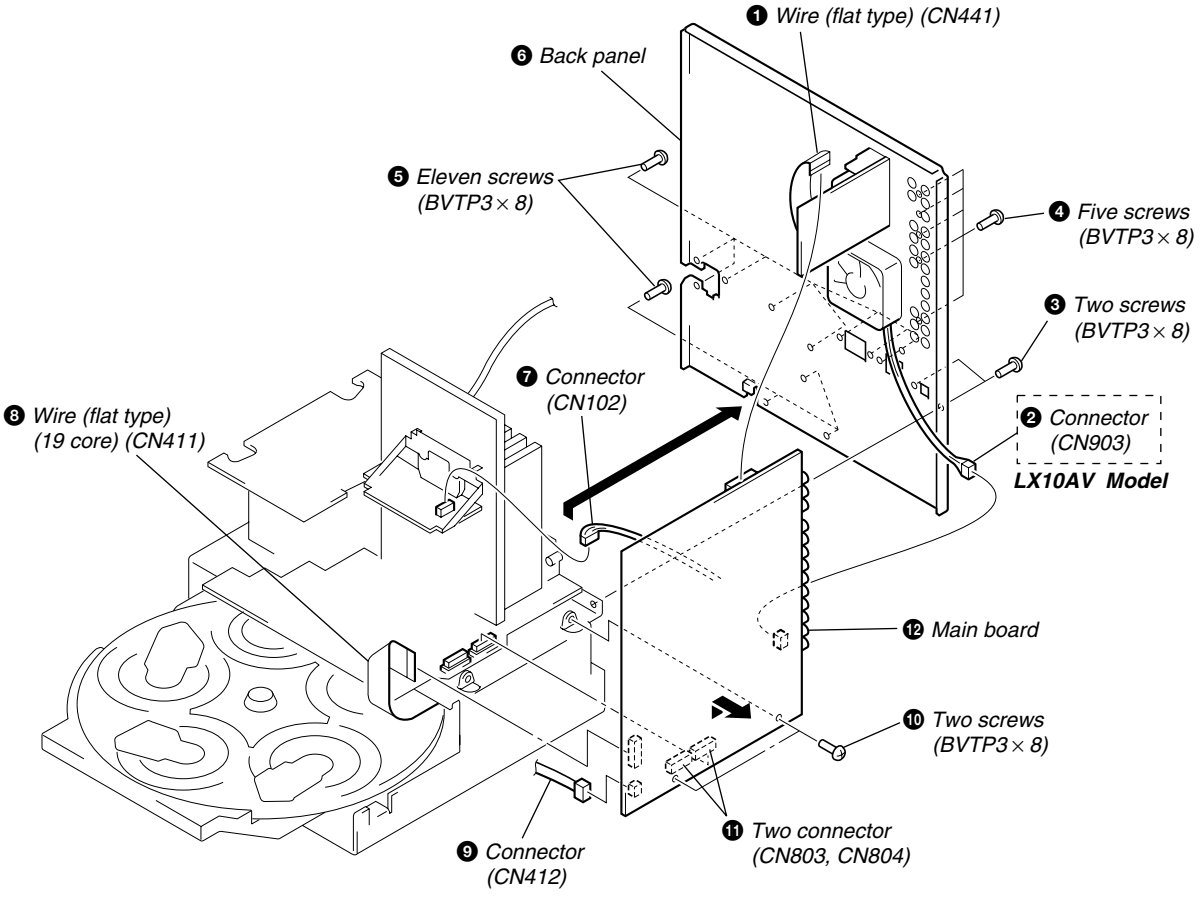
3-2. FRONT PANEL SECTION



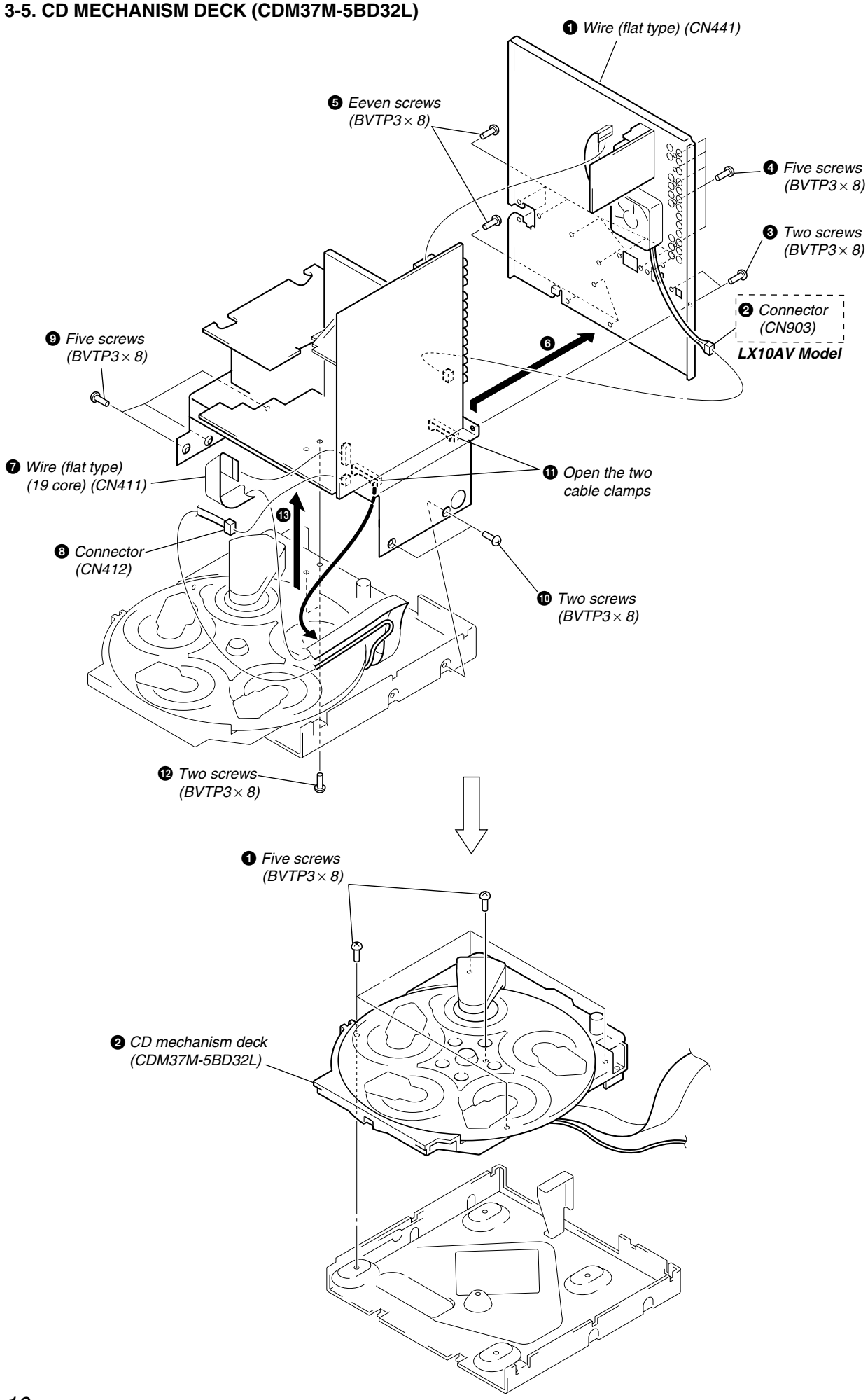
3-3. TAPE MECHANISM DECK (TCM-230PWR1)



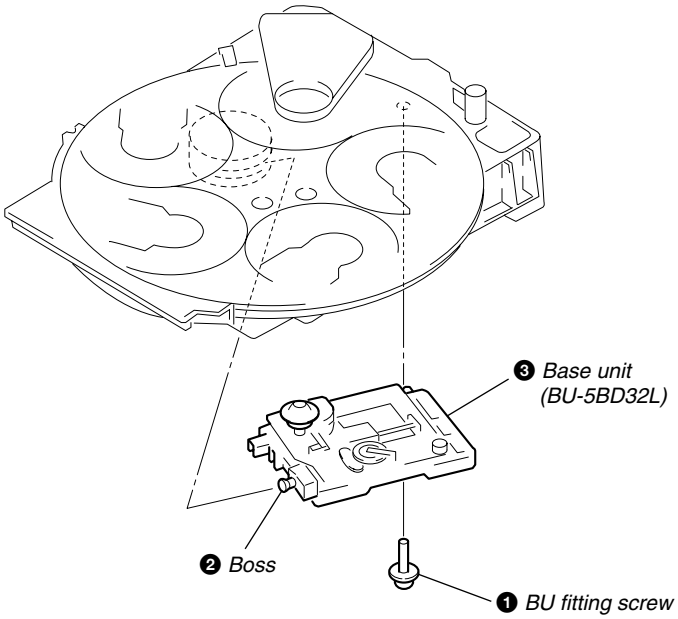
3-4. MAIN BOARD



3-5. CD MECHANISM DECK (CDM37M-5BD32L)

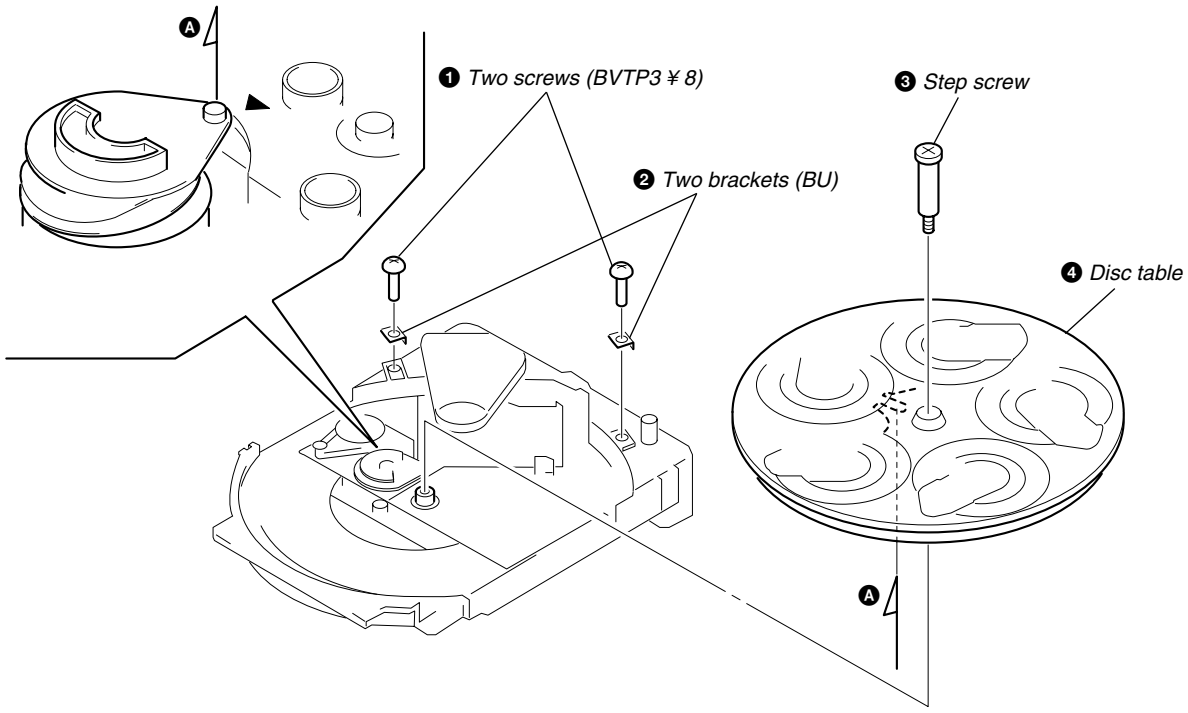

❶ Wire (flat type) (CN441)
❺ Eeven screws (BVTP3× 8)
❹ Five screws (BVTP3× 8)
❸ Two screws (BVTP3× 8)
❷ Connector (CN903)
LX10AV Model
❻
❾ Five screws (BVTP3× 8)
❼ Wire (flat type) (19 core) (CN411)
❶❶ Open the two cable clamps
❶❸
❽ Connector (CN412)
❶❷ Two screws (BVTP3× 8)
❶ Five screws (BVTP3× 8)
❷ CD mechanism deck (CDM37M-5BD32L)

3-6. BASE UNIT (BU-5BD32L)



3-7. DISC TABLE

Note: When the disc table is installed, adjust the positions of roller cam and mark as shown in the figure, then set to the groove of disc table.



SECTION 4
SERVICE MODE

MC Cold Reset

• The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons [◴/CLOCK SET], [ENTER], and [I/⏻] simultaneously.
2. "COLD RESET" is displayed on the fluorescent display tube and reset is executed.

CD Delivery Mode

• This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Press [LOOP] button and [I/⏻] button simultaneously.
3. A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

MC Hot Reset

• This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons [◴/CLOCK SET], [ENTER], and [DISC 1] simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

Sled Servo Mode

• This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Press three buttons [◴/CLOCK SET], [ENTER], and [DISC 5] simultaneously.
3. The Sled Servo mode is selected, if "CD" is blanking on the fluorescent indicator tube.
4. With the CD in stop status, When the [⏮ AMS ⏭] knob is rotated in the clockwise direction, the pick-up moves outside. When rotated counterclockwise, it moves inside.
5. To exit from this mode, perform as follows:
   1) Move the pick-up to the most inside track.
   2) Execute MC cold reset. (Press the three buttons [◴/CLOCK SET], [ENTER], and [I/⏻] button simultaneously.)

Note:

• Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
• Do not run the sled motor excessively, otherwise the gear can be chipped.

Change-over of AM Tuner Step between 9kHz and 10kHz (DR8AV Only)

• A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Select the function "TUNER", and press [TUNER/BAND] button to select the BAND "AM".
3. Press [I/⏻] button to turn the set OFF.
4. Press [ENTER] and [I/⏻] buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9k STEP" or "AM 10k STEP", and thus the channel step is changed over.

LED and Fluorescent Indicator Tube All Lit, Key Check Mode

Procedure:

1. Press three buttons [◴/CLOCK SET], [ENTER], and [DISC 2] simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
   Press [DISC 2] button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays "K @ V0 J0". Each time a button is pressed, "K"value increases. However, once a button is pressed, it is no longer taken into account.
   "J" Value increases like 1, 2, 3 ... if rotating [⏮ AMS ⏭] knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
   "V" Value increases like 1, 2, 3 ... if rotating [VOLUME] knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

AMS Test Mode

• This mode is used for checking the AMS operations of the tape deck.

JIG
7-819-039-12 Alignment tape, AMS-110A

Procedure:

1. Press the I/⏻ button to turn the set ON.
2. Set the tape (AMS-110A).
3. Press the three buttons ⏲/CLOCK SET , ENTER , and DISC 3 button simultaneously.
4. "TEST MODE" is displayed on the fluorescent display tube.
5. Press the FUNCTION button and switch the function to the deck with the tape (AMS-110A).
6. Press the CD SYNCHRO button. "AMS CHECK" is displayed on the fluorescent display tube and the tape is rewound.
7. AMS starts in the normal direction. If the AMS count is 2 at shut down, proceed to step 8.
   "NG" is displayed at other times, and the deck stops.
8. AMS starts in the opposite direction. If the AMS count is 2 at shut down again, "OK" is displayed.
   "NG" is displayed at other times.

Aging Mode

During the aging mode, both the CD player and tape deck are executed together.

• If an error occurs:

Aging stops, and the error state is displayed on the fluorescent display tube.

• If no error occurs:

Aging is repeated.

Procedure:

1. Press the I/⏻ button to turn the set ON.
2. Load 10 minute tapes with unbent rec-proof tabs in decks A and B.
3. Set CDs on the DISC 1 and DISC 4 tables.
4. Set the CD mode REPEAT to OFF and PLAY MODE to ALL DISCS.
   (Press the PLAY MODE and REPEAT buttons to set these modes.)
5. Press the FUNCTION button to switch the function to "CD".
6. Press the three buttons ⏲/CLOCK SET , ENTER , and DISC 4 button simultaneously.
7. Aging starts.
8. To end aging, press the I/⏻ button to turn the set OFF.

Aging Sequence:

Aging is performed in the following sequence.

• Tape Deck

1. The tape in deck A is rewound. "TAPE A AG-1" is displayed.
2. The FWD side of deck A is played for two minutes.
   "TAPE A AG-2" is displayed.
3. The tape in deck A is fast forwarded. "TAPE A AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
4. The RVS side of deck A is played for two minutes.
   "TAPE A AG-4" is displayed.
5. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
6. The FWD side of deck B is played for two minutes.
   "TAPE B AG-2" is displayed.
7. The tape in deck B is fast forwarded. "TAPE B AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
8. The RVS side of deck B is played for two minutes.
   "TAPE B AG-4" is displayed.
9. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
10. Repeated from step 2.

• CD

1. The tray rotates.
2. DISC 1 is chucked.
3. The TOC is read.
4. The first track is played for 2 seconds.
5. The last track is played for 2 seconds.
6. The tray rotates.
7. DISC 4 is chucked.
8. The TOC is read.
9. The first track is played for 2 seconds.
10. The last track is played for 2 seconds.
11. Repeated from step 1.

• Display when ended abnormally
When the tape deck is abnormal:

The state when ended abnormally is displayed.
The contents of display are the same as that during aging.

When the CD player is abnormal:

A message indicating that errors such as “CD MEC ERR” have occurred.
Check the error contents in the following error history display mode.

Error History Display Mode

Mode which enables the history of error occurring in the CD player to be checked.
Execute this mode after ending the aging mode.

Procedure:
1. Press the I/⏻ button to turn the set ON.
2. Press the three buttons ⏲/CLOCK SET, ENTER, and CD SYNCHRO simultaneously.
3. A message such as “EMC@@EDC**” is displayed.
   @@ : Number of mechanical errors (Up to three past errors)
   ** : Number of errors (NO DISC ERROR) which occurs after chucking (Up to three past errors)
4. When checking the history of mechanical errors, press the PLAY MODE button. When checking errors after chucking, press the REPEAT button to switch the display.
5. Press the I/⏻ button to end and turn the set OFF.
6. To erase the error history, perform COLD reset.
   (Press the three buttons ⏲/CLOCK SET, ENTER, and DISC 1 simultaneously.

• Viewing the mechanical error history display
(Switch the history by pressing the PLAY MODE button.)

Display
E@@M#*****

@@ : Error number. 00 is the newest.

: Operating state of table

0 : Currently in the INITIAL mode
7 : Currently rotating to the right
8 : Currently rotating to the left
A : Currently chucking down
B : Currently chucking up

* : Invalid

• Viewing the NO DISC ERROR history display
(Switch the history by pressing the REPEAT button.)

Display
E@@D##$$%*

@@ : Error number. 00 is the newest

: Error contents
01: Focus error
02: GFS error
03: Setup error

$$: Retries
00: NO DISC is determined without attempting chucking retry
02: NO DISC is determined after chucking retry.

% : State when determined as NO DISC
1 : When stopped
2 : At setup
3 : At TOC READ
4 : When accessing
5 : When playing
6 : When pausing
7 : When manual searching (during play)
8 : When manual searching (during pausing)
* : Invalid

SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback heads — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	100 g or more (3.53 oz or more)
REV tension	CQ-403R	100 g or more (3.53 oz or more)

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION **0 dB=0.775V**

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

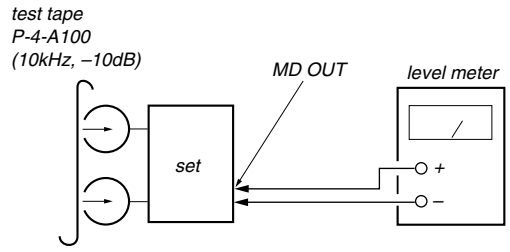
Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

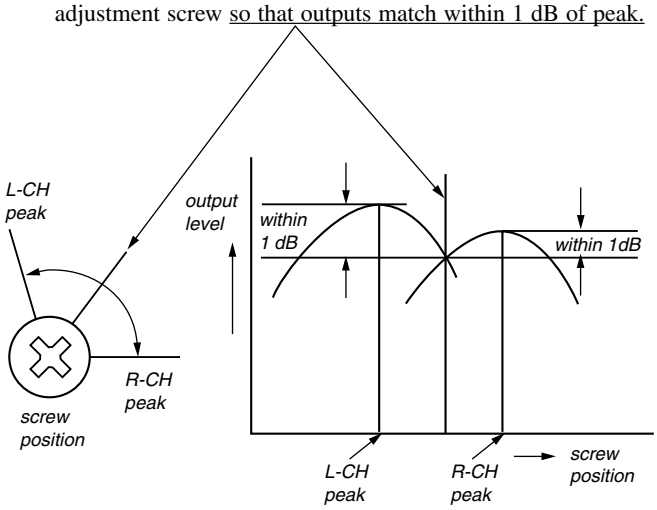
Note: Perform this adjustments for both decks.

Procedure:

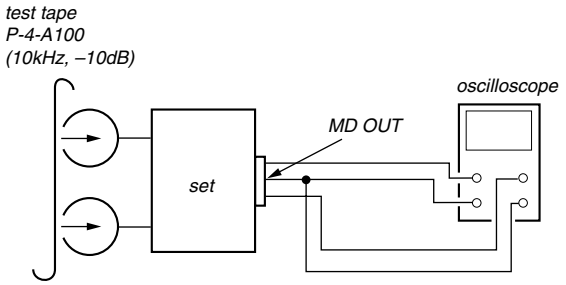
1. Mode : Playback

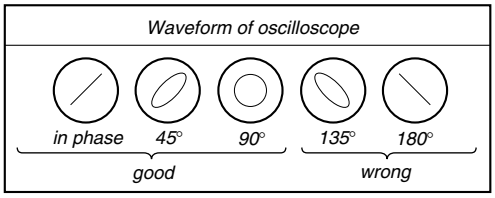


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



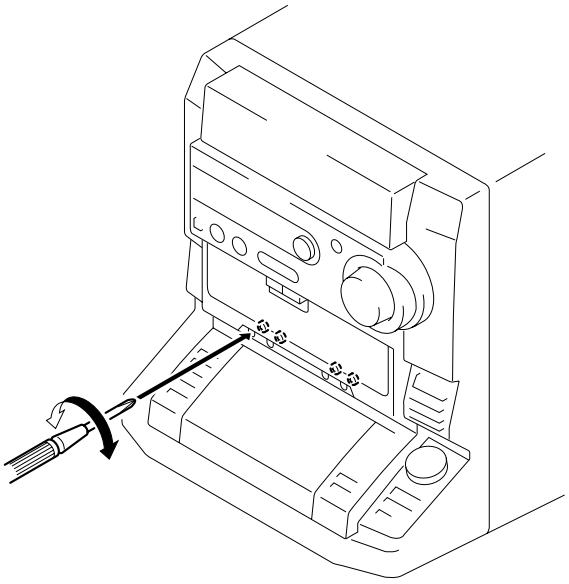
3. Mode: Playback





4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A)
Record/Playback/Erase Head (Deck B)



Tape Speed Adjustment (Deck A)

Note: Set the test mode using the following method and begin tape speed adjustment.
In the test mode, the speed will switch to double speed or normal speed each time the HI-SPEED DUB button is pressed.

Procedure:
With the power turned ON, press the ⏲/CLOCK SET button, ENTER button, and DISC 3 button simultaneously.
(The "VOLUME" on the fluorescent display tube will blink while in the test mode.)
To exit the test mode, press the I/⏻ button.

1. Insert the WS-48B into deck B.
2. Press the ▷ button of deck B.
3. Press the HI-SPEED DUB button and play the tape at double speed.
4. Adjust RV1001 of the LEAF SW board so that the reading of the frequency counter becomes 6000 ± 180 Hz.
5. Press the HI-SPEED DUB button and play the tape at normal speed.
6. Adjust RV1002 of the LEAF SW board so that the reading of the frequency counter becomes 3000 ± 90 Hz.

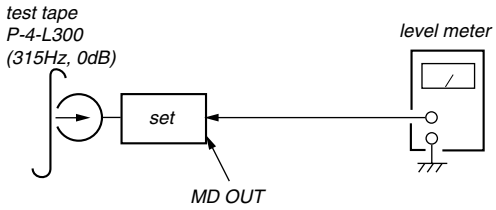
Adjustment Location: LEAF SW board

Sample Value of Wow and flutter

W.RMS (JIS) less than 0.3%
(test tape: WS-48B)

Playback Level Adjustment (Deck A, Deck B)

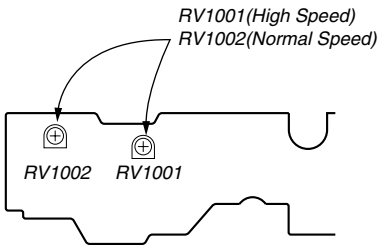
Procedure:
Mode: Playback



Deck A is RV311 (L-CH) and RV411 (R-CH), deck B is RV301 (L-CH) and RV401 (R-CH)
so that adjustment within the following adjustment level.

Adjustment level:
CN301 playback level: 301.5 to 338.3 mV (–8.2 to –7.2 dB)
level difference between the channels: within ± 0.5 dB
Adjustment Location: AUDIO board

Adjustment Location [LEAF SW BOARD]

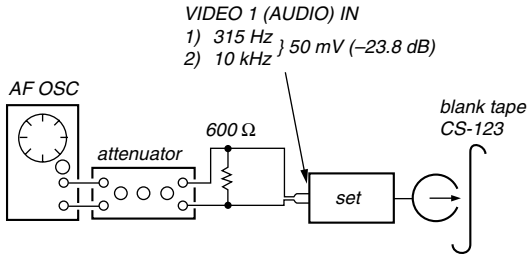


Record Bias Adjustment (Deck B)

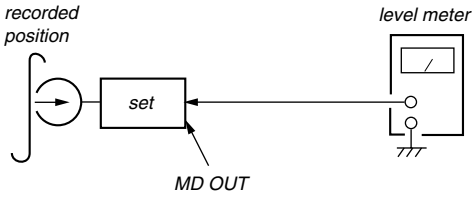
Procedure:

INTRODUCTION
When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.
This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.
(After recording, press the ◀◀ button without stopping will return to the position where recording was started.)

1. Press FUNCTION button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the ● REC button, and then press the ▷ button to start recording.
3. Mode: Record
4. Mode: Playback



5. Confirm playback the signal recorded in step 2 become adjustment level as follows.



If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 3 and 4.

Adjustment level: The playback output of 10 kHz level difference against 315 Hz reference should be ± 1.0 dB.

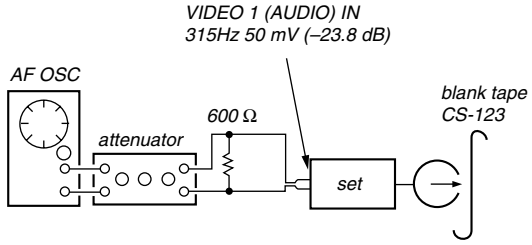
Adjustment Location: AUDIO board

Record Level Adjustment (Deck B)

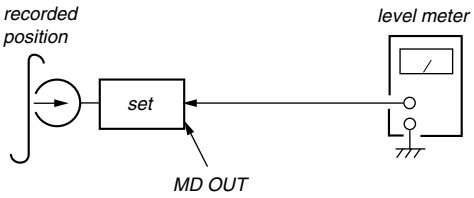
Procedure:

INTRODUCTION
When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.
This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.
(After recording, press the ◀◀ button without stopping will return to the position where recording was started.)

1. Press FUNCTION button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the ● REC button, and then press the ▷ button to start recording.
3. Mode: Record
4. Mode: Playback



5. Confirm playback the signal recorded in step 2 become adjustment level as follows.

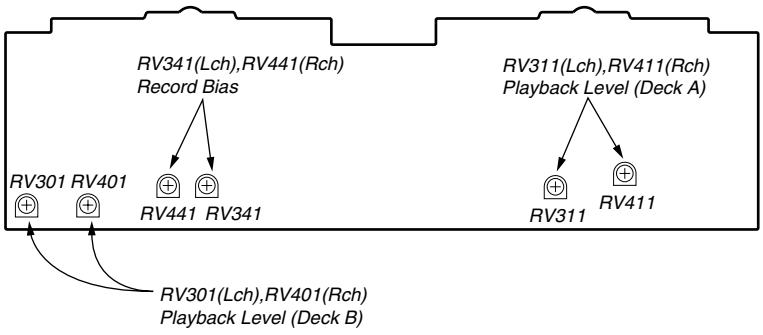


If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 3 and 4.

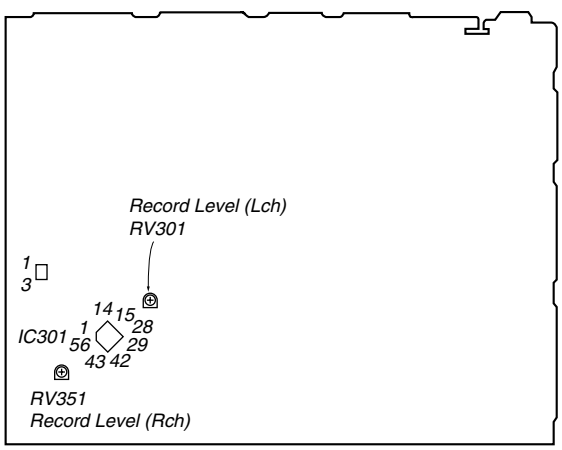
Adjustment level:
CN403 playback level: 47.2 to 53.0 mV (–24.3 to –23.3 dB)

Adjustment Location: MAIN board

Adjustment Location:
[AUDIO BOARD] (Conductor Side)



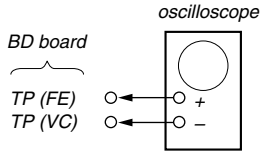
[MAIN BOARD] (Conductor Side)



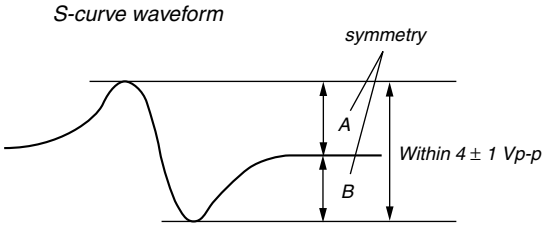
CD SECTION

Note:
1. CD Block is basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



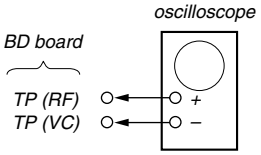
Procedure :
1. Connect the oscilloscope to test points TP (FE) and TP (VC).
2. Connect TP (FEI) and GND, and TP (AGCCON) and GND of the BD board with lead wires.
3. Press the [I/⏻] button to turn the set ON.
4. With the disc (YEDS-18) loaded, press the [▷II] button and perform focus search. (Focus search will be performed in the same way even while the disc table is pushed in and out.)
5. Check the symmetry and peak to peak level of the oscilloscope waveform (S curve) at this time.



6. After check, remove the lead wire connected in step 2.

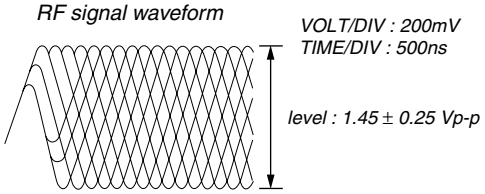
Note: • Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

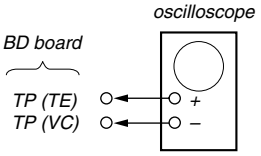


Procedure :
1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
2. Connect TP (AGCCON) and GND of the BD board with lead wires.
3. Press the [I/⏻] button to turn the set ON.
4. Put disc (YEDS-18) in and playback 5 track.
5. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
6. After check, remove the lead wire connected in step 2.

Note: Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

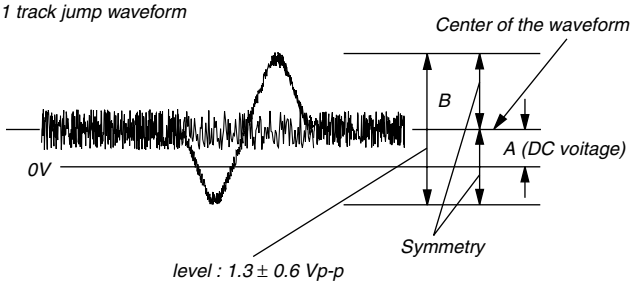


E-F Balance (1 Track Jump) check



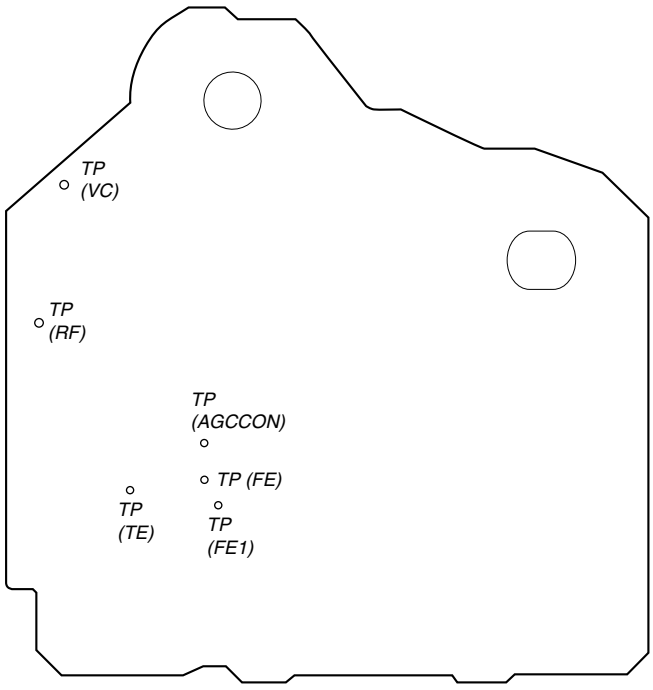
Procedure:
1. Connect oscilloscope to test point TP (TE) on BD board.
2. Press the [I/⏻] button to turn the unit ON.
3. Put disc (YEDS-18) in to play the number five track.
4. Press the [▷II] button.
5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following:

   • A/B x 100 = less then ± 22 (%)
   • B = 1.3 ± 0.6 Vp-p



Adjustment Location :

[BD BOARD] — SIDE A —



SECTION 7
DIAGRAMS

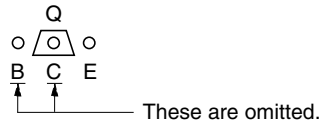
NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

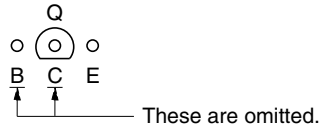
Note on Printed Wiring Board:

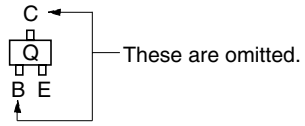
- ⚬——— : parts extracted from the component side.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transisitor.







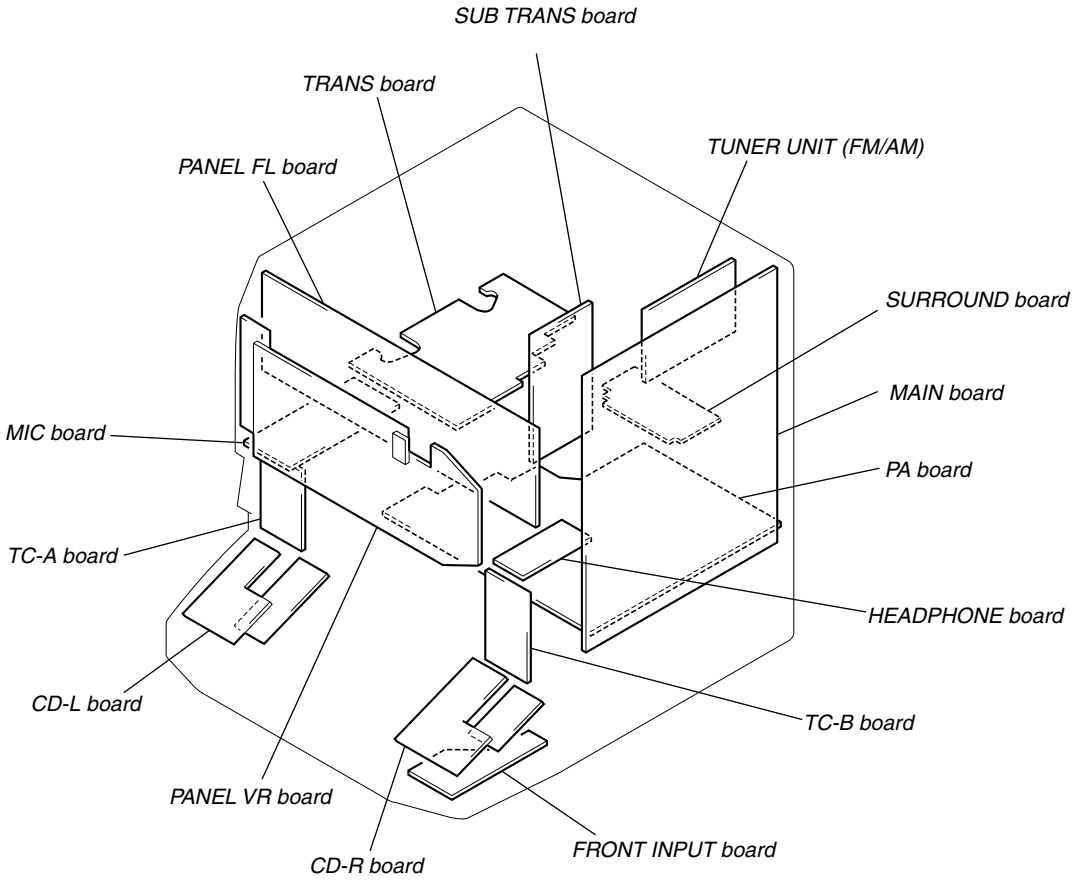
Note on Schematic Diagram:

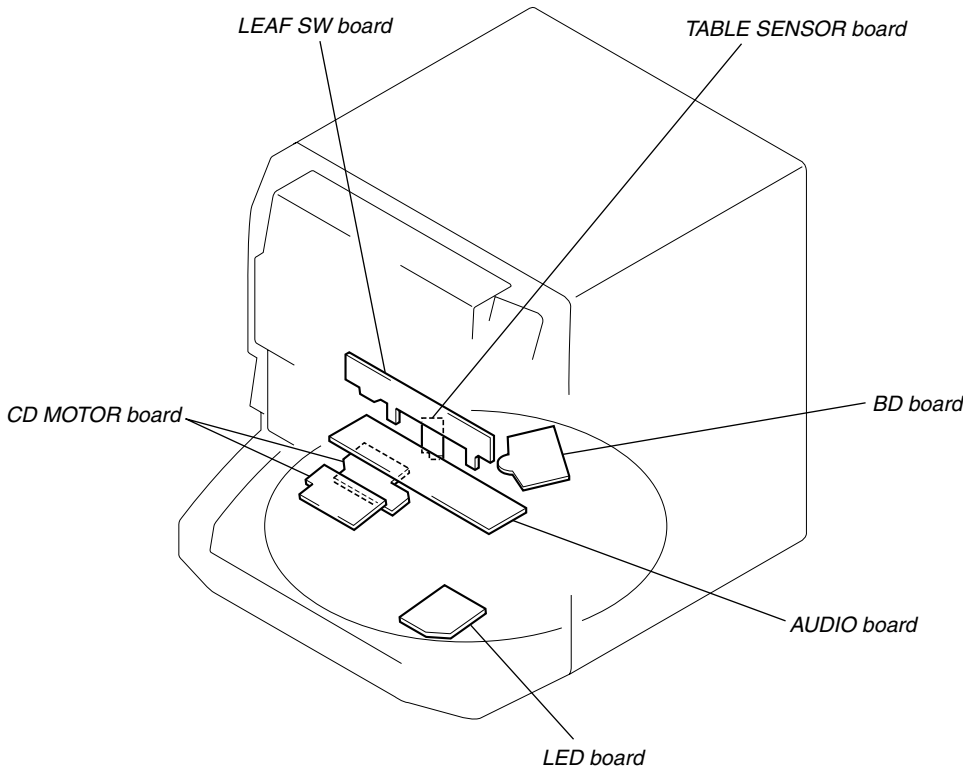
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER (FM/AM)
  - : PLAYBACK (DECK A)
  - : PLAYBACK (DECK B)
  - : RECORD
  - : CD PLAY (ANALOG OUT)
  - : CD PLAY (DIGITAL OUT)
  - : MIC INPUT
- Abbreviation
  - AUS : Australian model
  - AR : Argentine model
  - EA : Saudi Arabia model
  - MY : Malaysia model
  - MX : Mexican model
  - SP : Singapore model

7-1. CIRCUIT BOARDS LOCATION

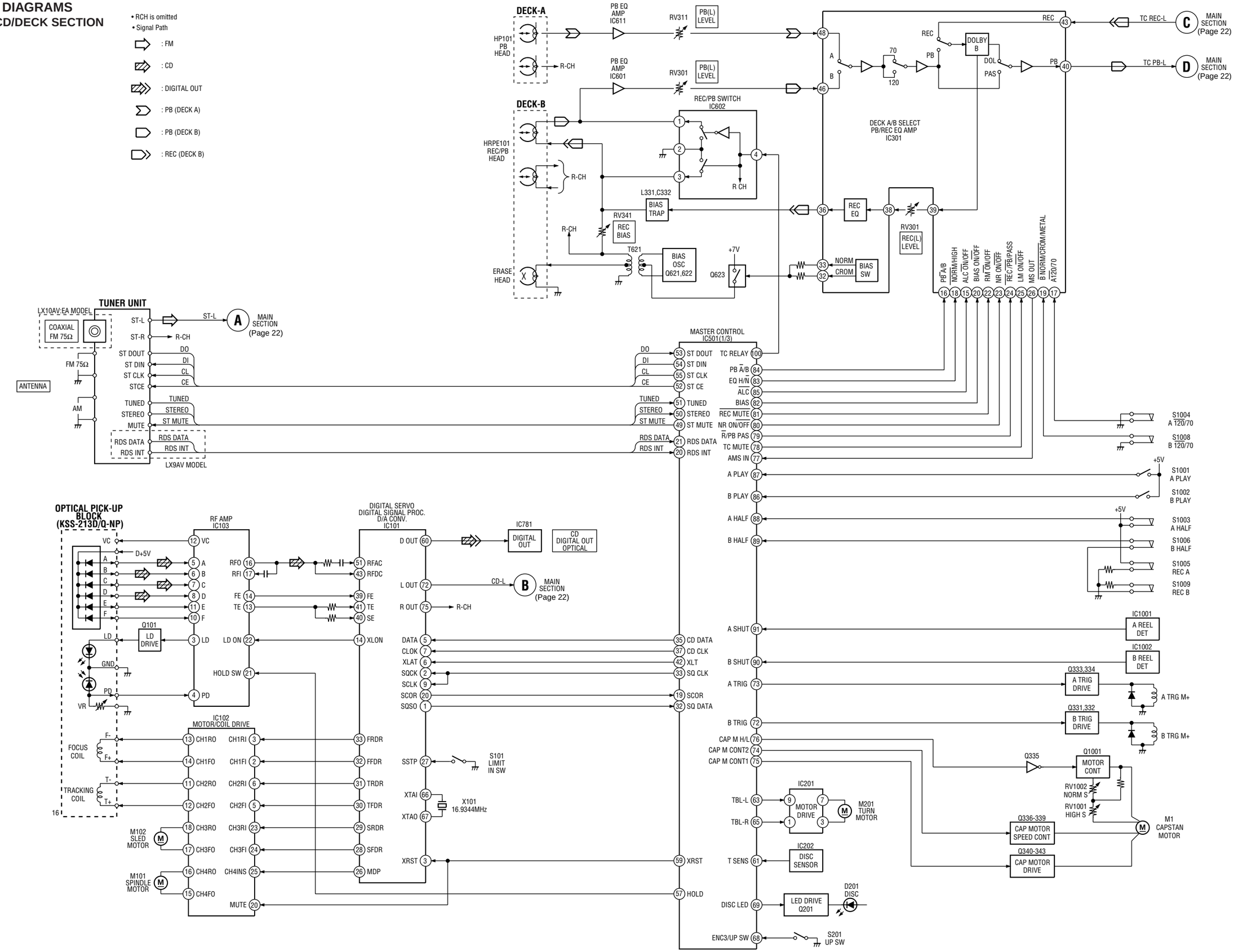




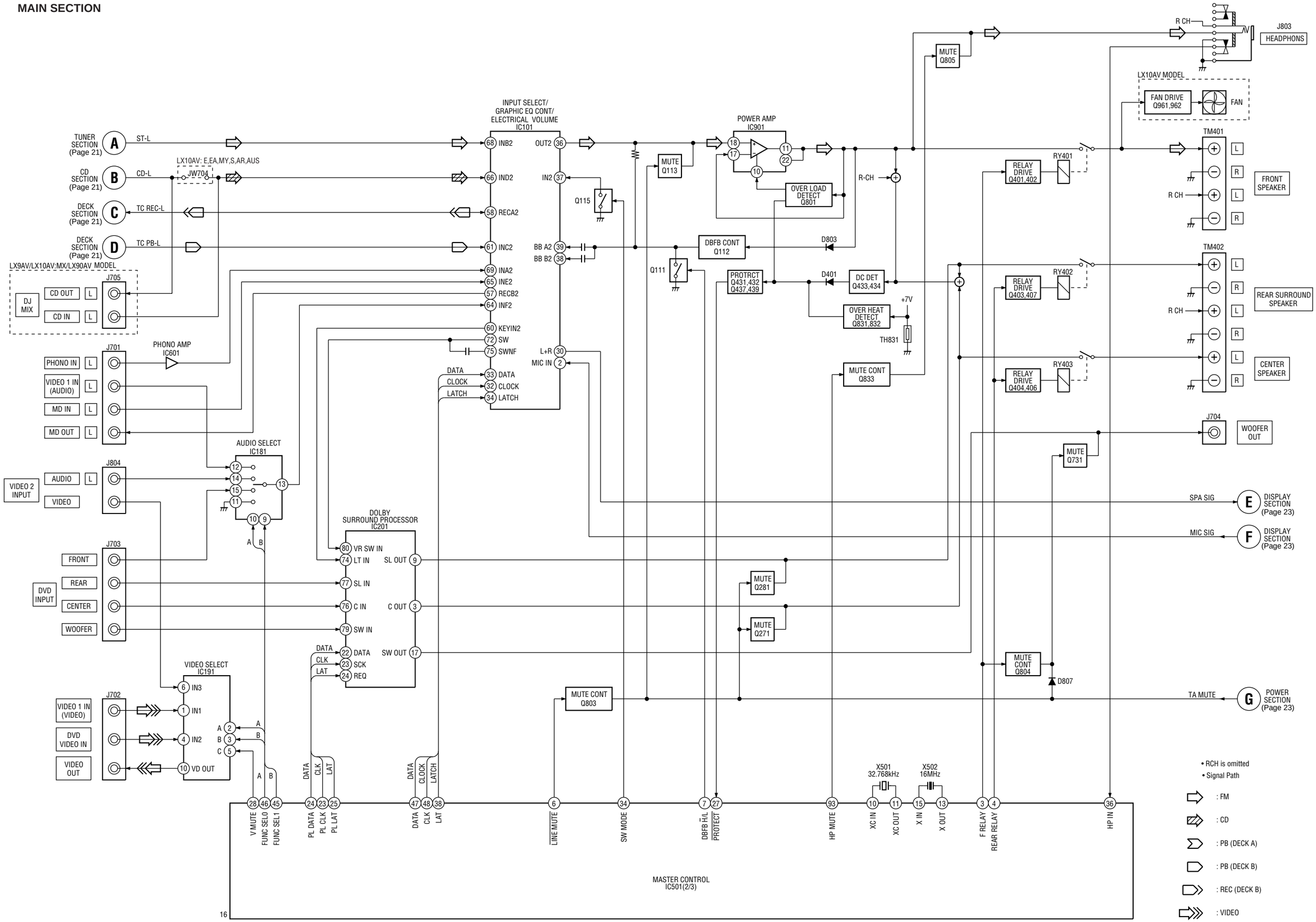
7-2. BLOCK DIAGRAMS
TUNER/CD/DECK SECTION

- RCH is omitted
- Signal Path

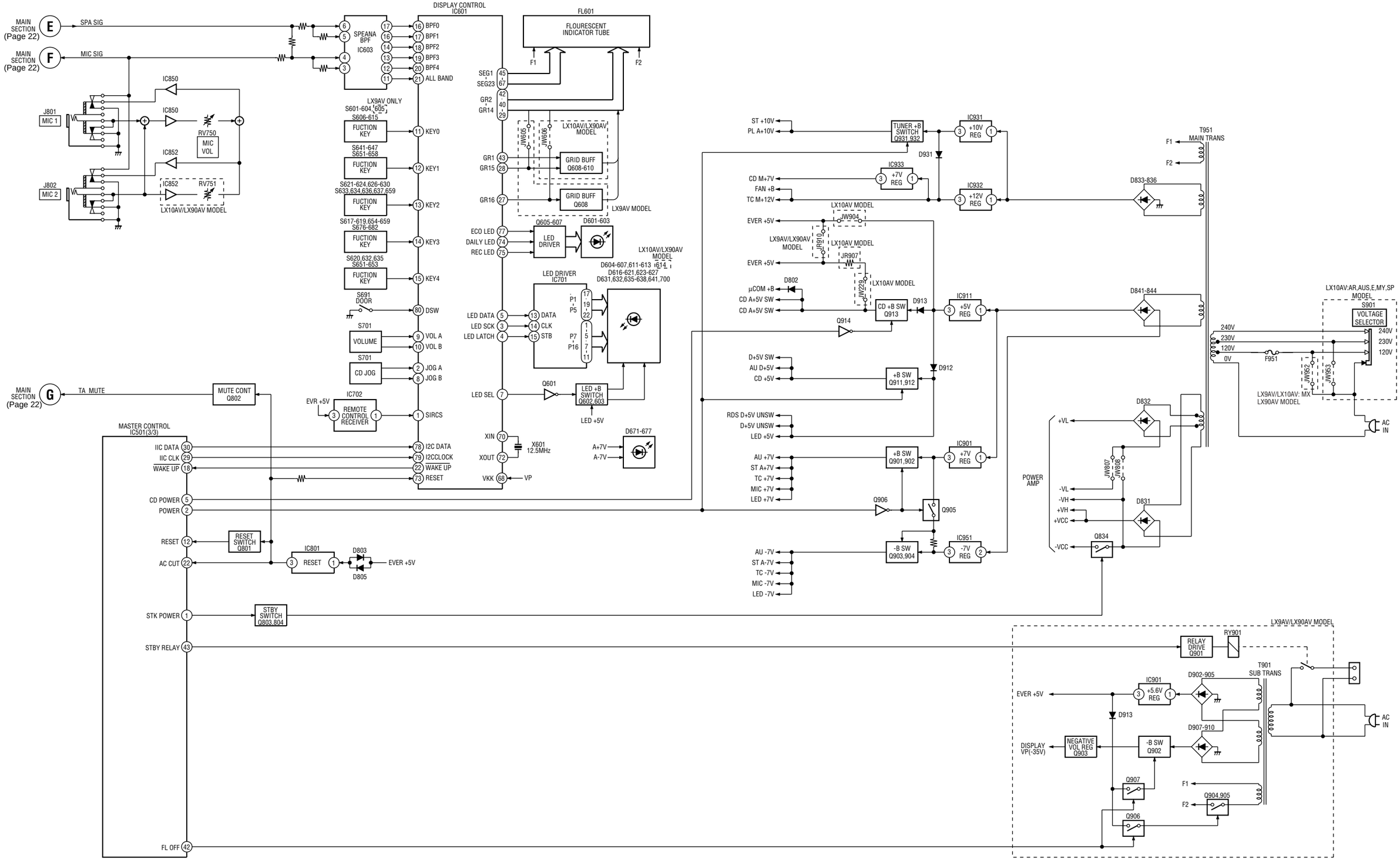
: FM
: CD
: DIGITAL OUT
: PB (DECK A)
: PB (DECK B)
: REC (DECK B)



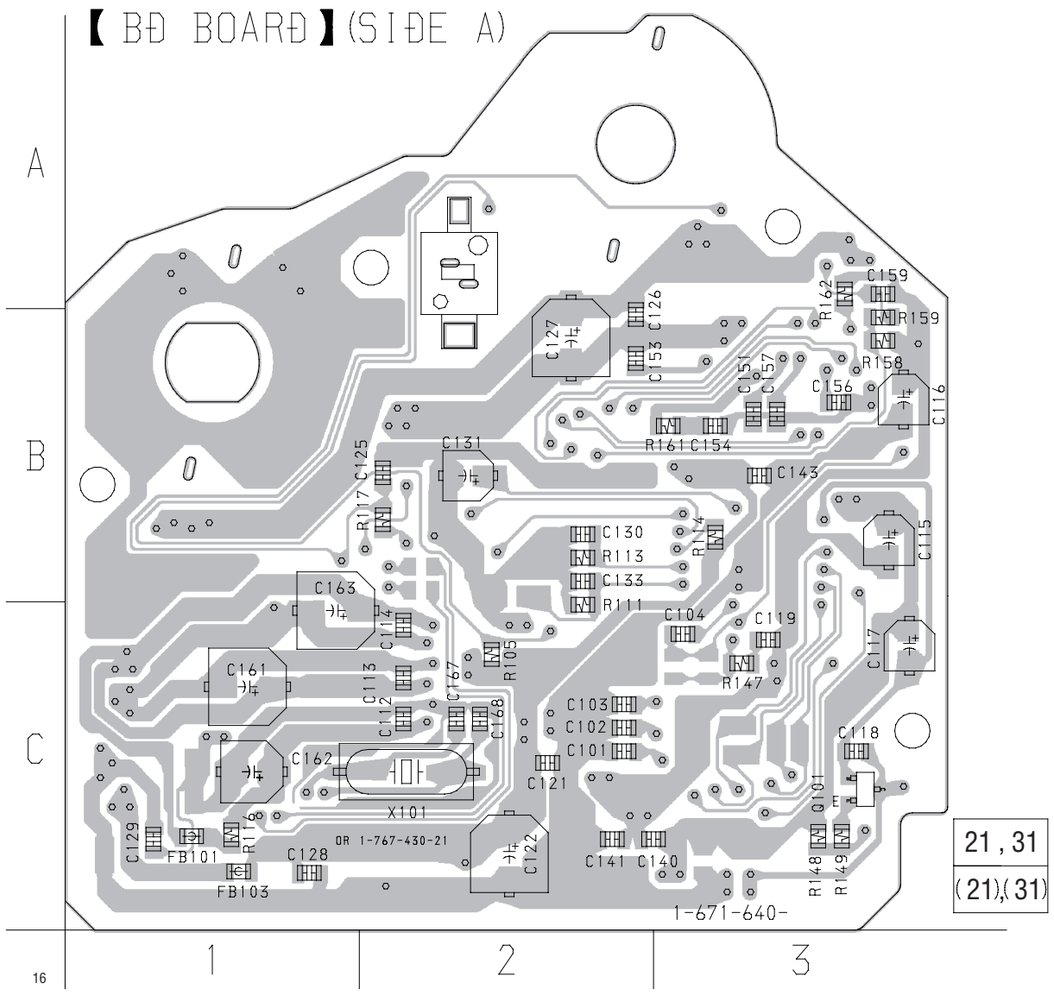
MAIN SECTION

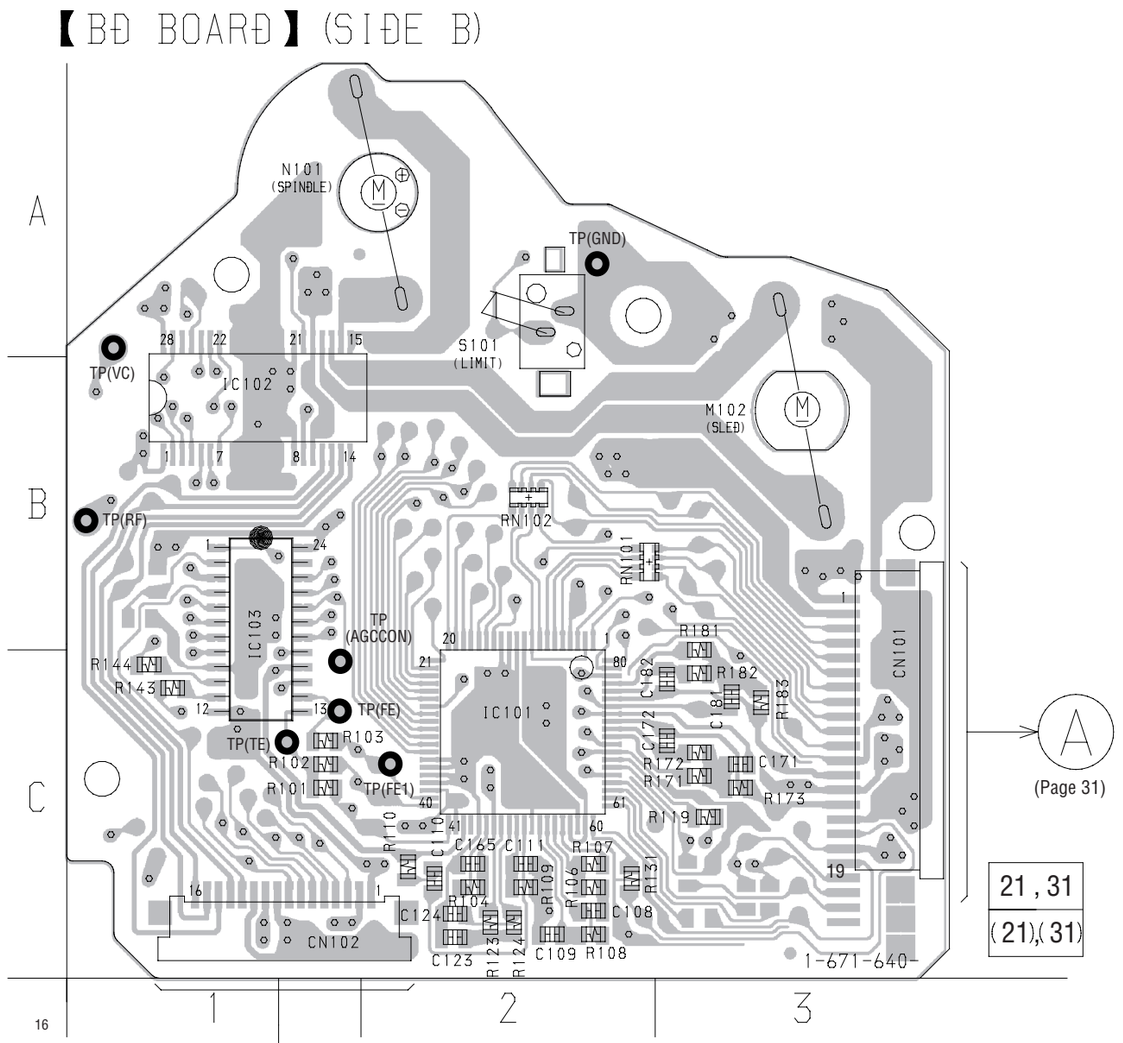


DISPLAY/POWER SECTION



7-3. PRINTED WIRING BOARD – BD Board – • See page 20 for Circuit Boards Location.





OPTICAL PICK-UP BLOCK
KSS-213D/Q-NP

- **Semiconductor Location (Side A)**

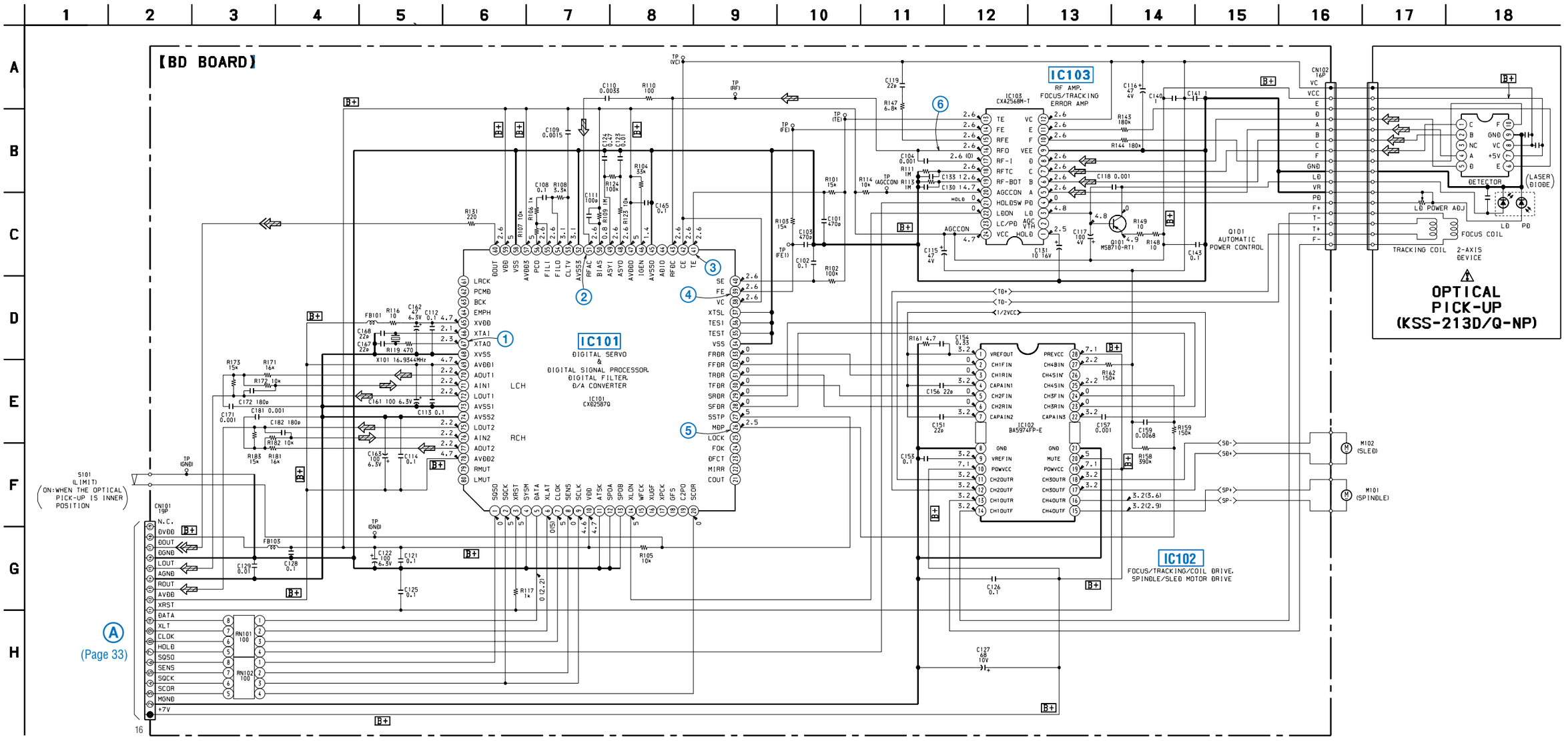
Ref. No.	Location
Q101	C-3

- **Semiconductor Location (Side B)**

Ref. No.	Location
IC101	C-2
IC102	B-1
IC103	B-1

7-4. SCHEMATIC DIAGRAM – BD Board –

• See page 35 for Waveforms. • See page 50 for IC Block Diagrams.

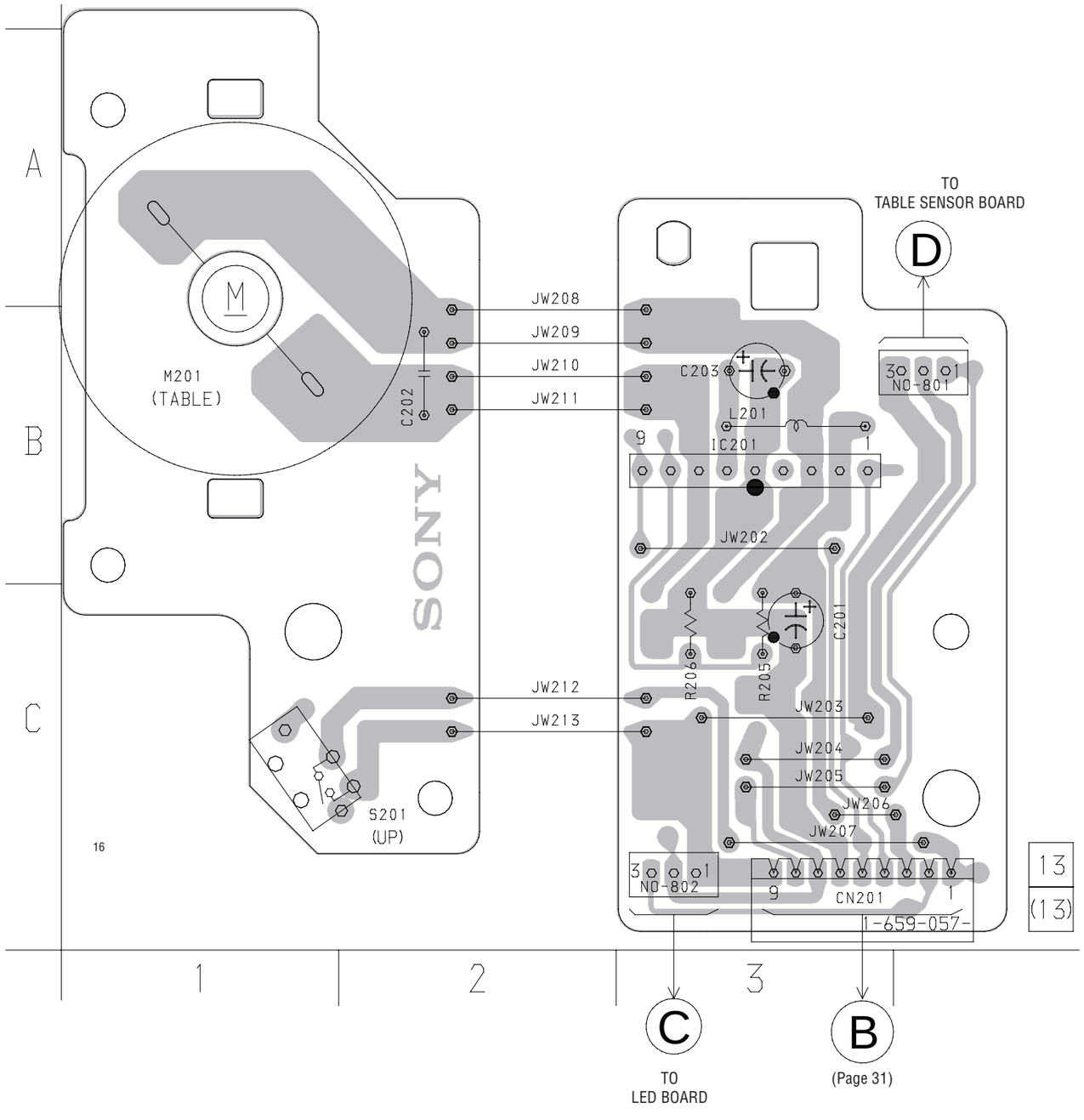


- Voltages and waveforms are dc with respect to ground under no-signal conditions.
  no mark : CD STOP
  ( ) : CD PLAY

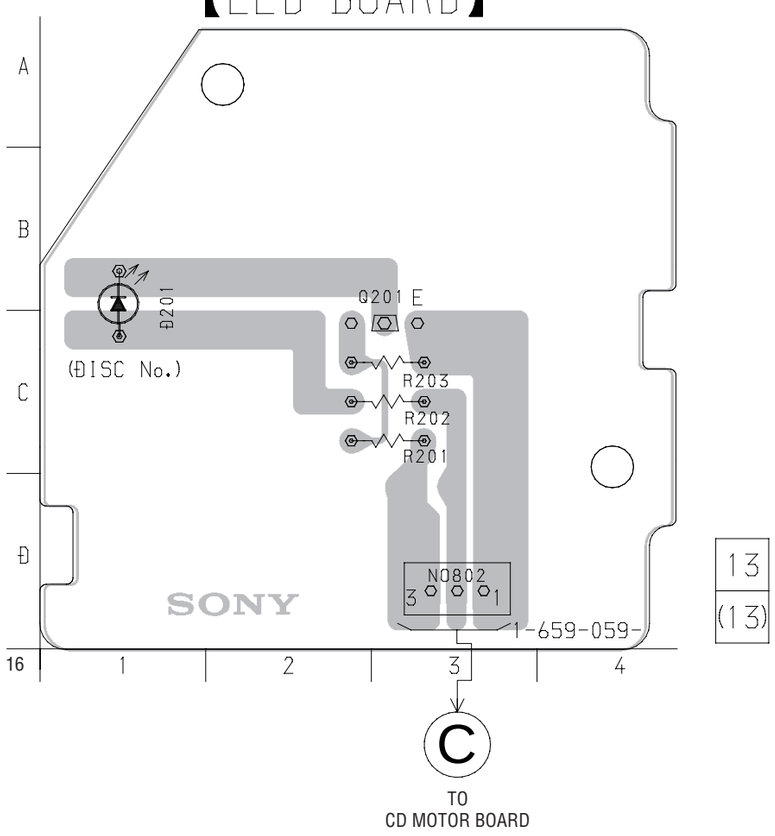
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-5. PRINTED WIRING BOARDS – CD MOTOR Section – • See page 20 for Circuit Boards Location.

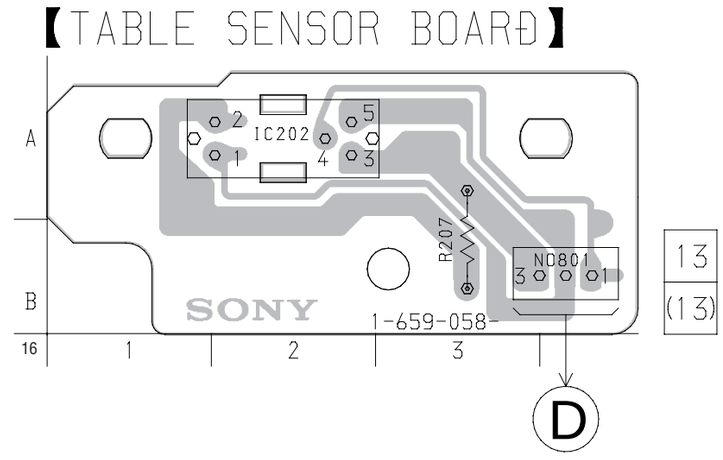
【CD MOTOR BOARD】



【LED BOARD】

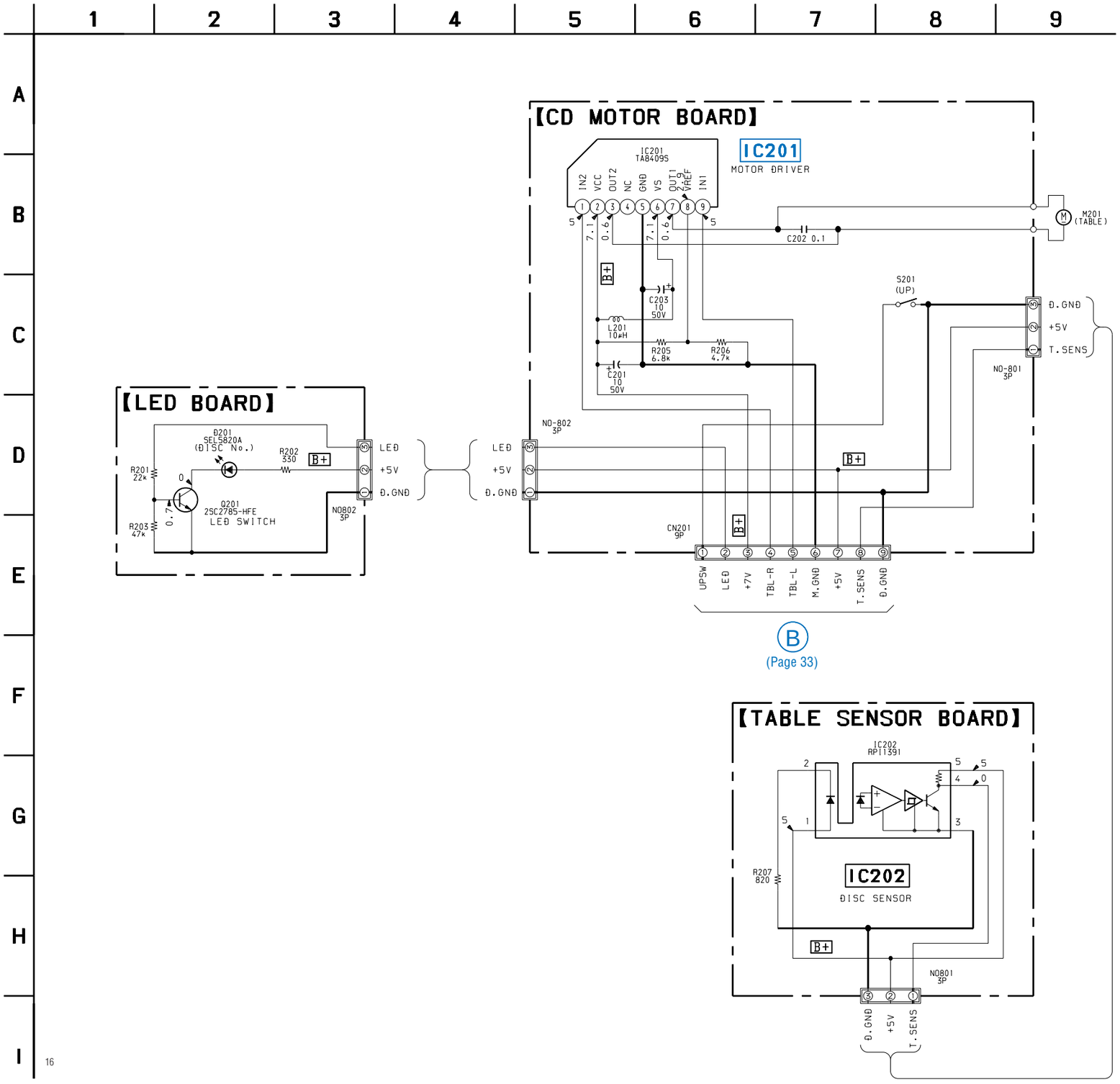


【TABLE SENSOR BOARD】



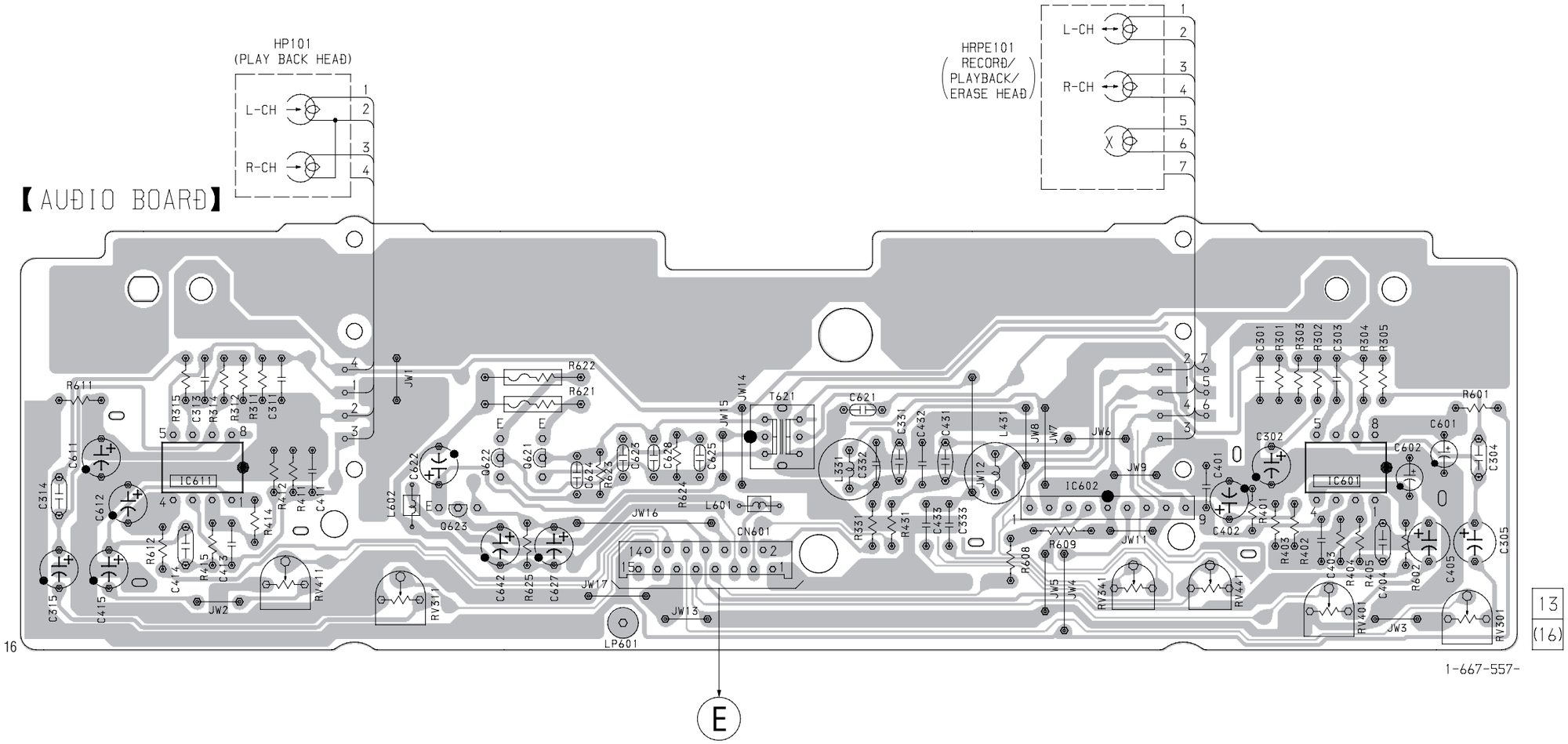
7-6. SCHEMATIC DIAGRAM – CD MOTOR Section –

• See page 50 for IC Block Diagrams.



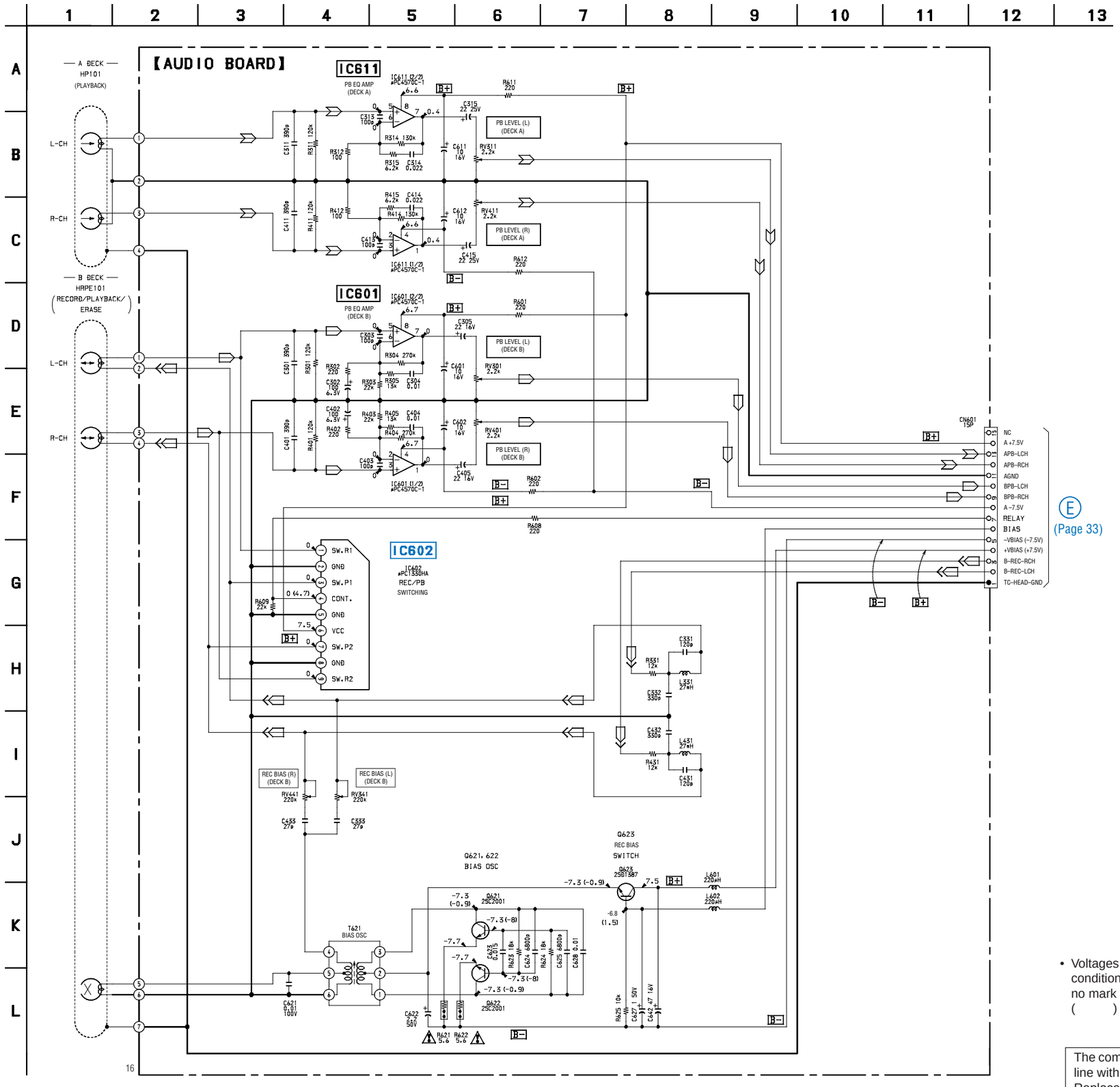
• Voltages are dc with respect to ground under no-signal conditions.
no mark : CD STOP

7-7. PRINTED WIRING BOARD – AUDIO Board – **• See page 20 for Circuit Boards Location.**



(Page 31)

7-8. SCHEMATIC DIAGRAM – AUDIO Board – • See page 50 for IC Block Diagrams.

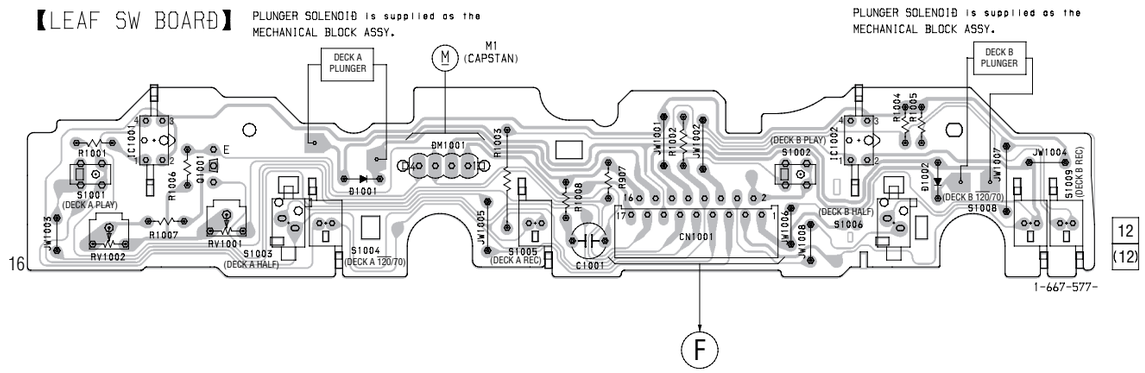


(E) (Page 33)

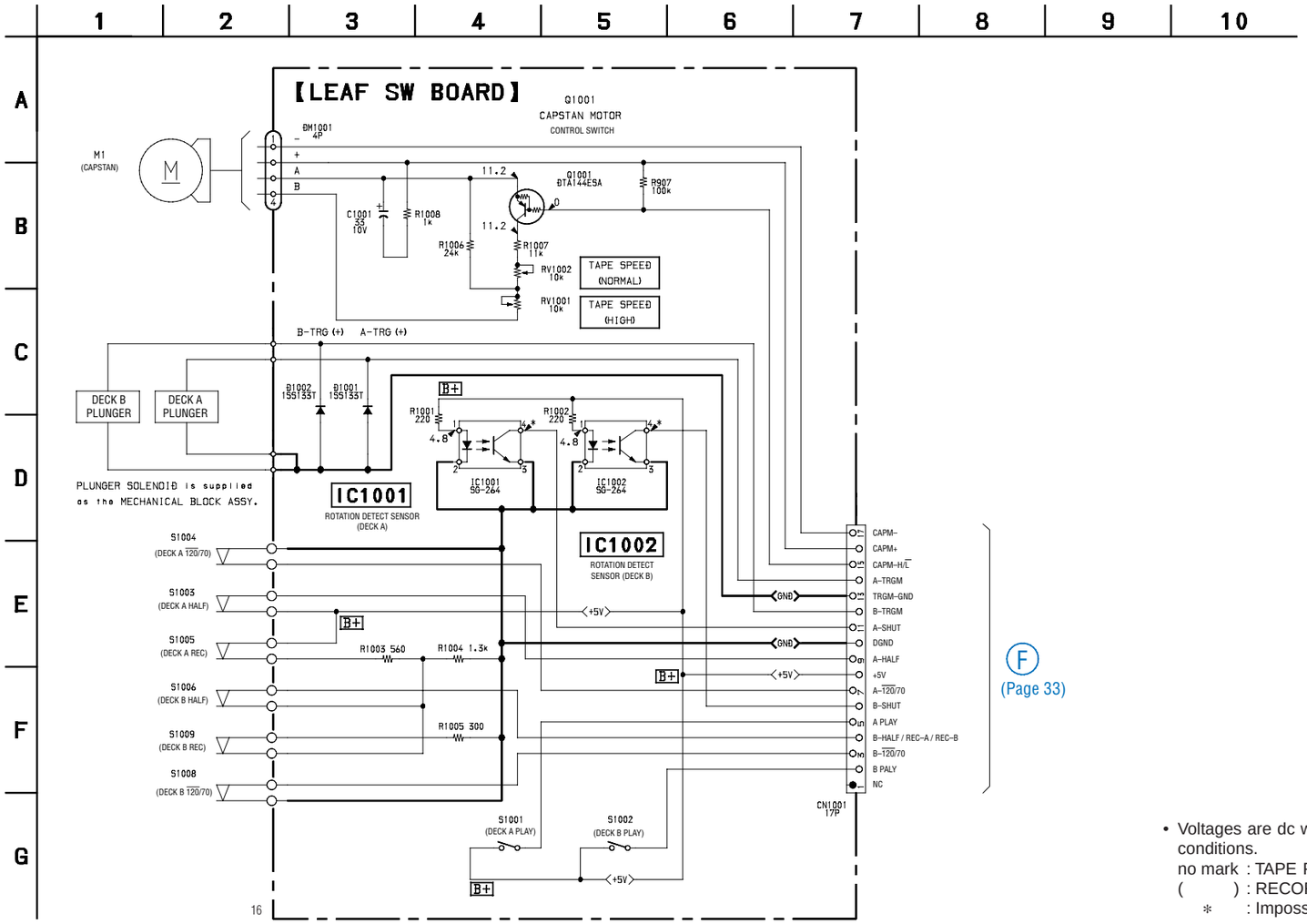
- Voltages are dc with respect to ground under no-signal conditions.
  no mark : TAPE PLAY
  ( ) : RECORD

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

7-9. PRINTED WIRING BOARD – LEAF SW Board – • See page 20 for Circuit Boards Location.

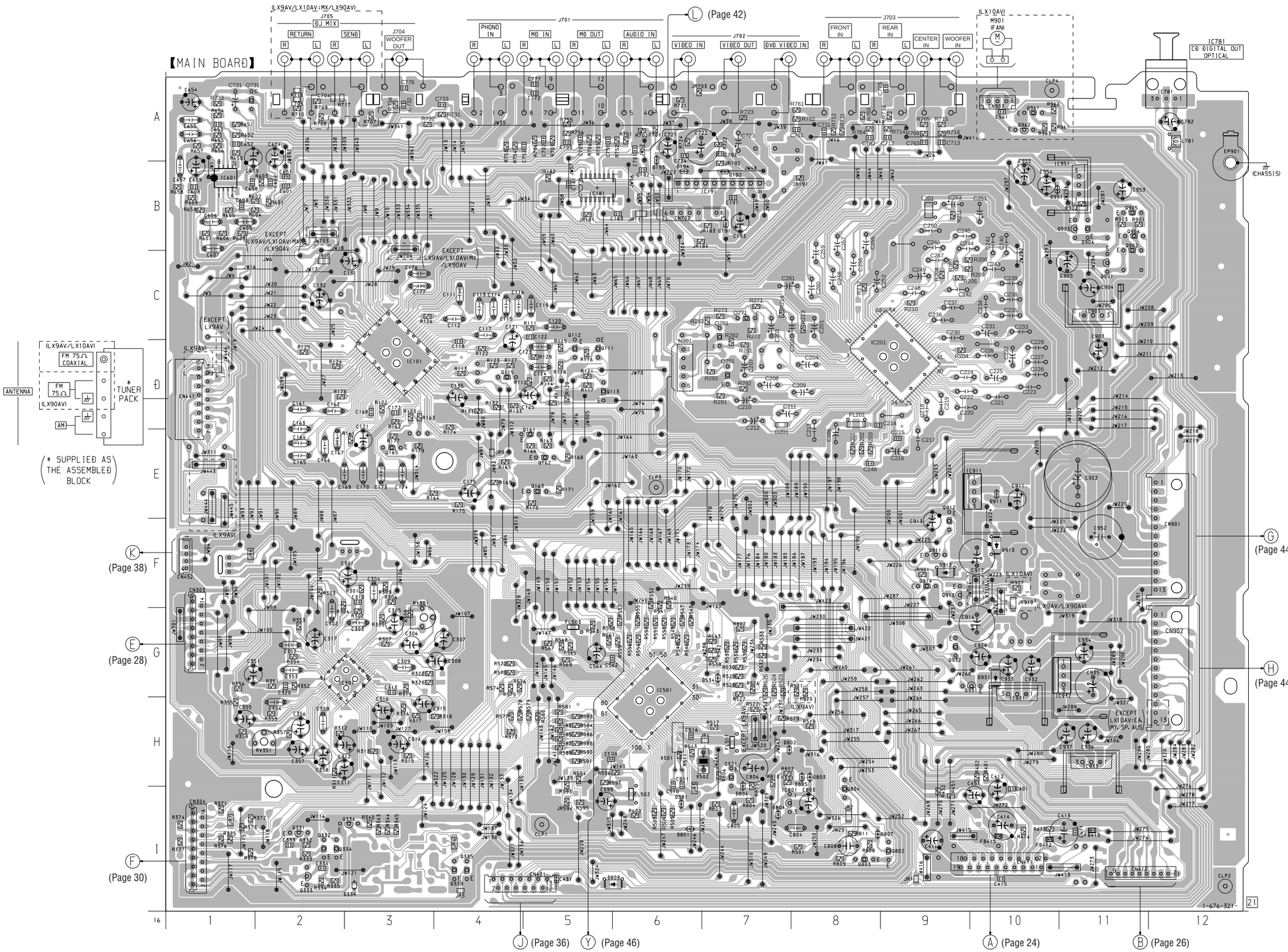


7-10. SCHEMATIC DIAGRAM – LEAF SW Board –



- Voltages are dc with respect to ground under no-signal conditions.
  no mark : TAPE PLAY
  ( ) : RECORD
  ∗ : Impossible to measure

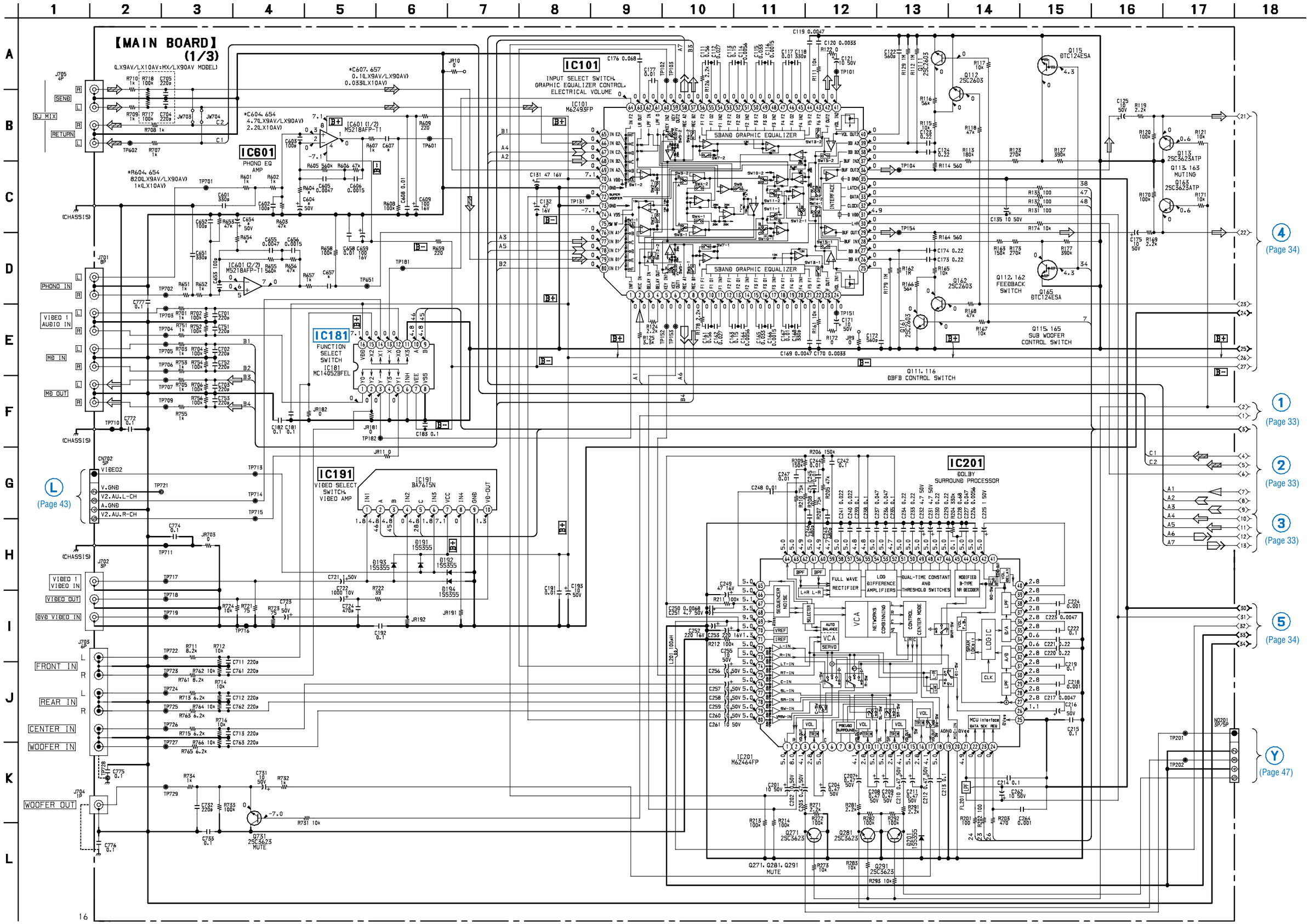
7-11. PRINTED WIRING BOARD – MAIN Board – • See page 20 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location
D191	B-7
D192	B-7
D193	A-6
D194	B-6
D201	E-7
D334	I-3
D501	I-6
D534	G-7
D801	I-6
D802	H-7
D803	H-8
D804	I-7
D805	H-8
D806	H-7
D807	H-8
D808	I-6
D911	E-10
D912	F-9
D913	F-10
D931	G-10
D951	B-10
IC101	D-3
IC181	B-5
IC191	B-7
IC201	C-9
IC301	G-2
IC501	H-6
IC601	B-1
IC781	A-12
IC801	I-7
IC901	C-11
IC911	E-10
IC931	G-10
IC932	G-11
IC932	G-12
IC933	H-11
IC951	B-11
Q111	D-5
Q112	D-5
Q113	D-5
Q115	D-4
Q161	E-5
Q162	E-5
Q163	E-5
Q165	E-3
Q331	I-2
Q332	I-2
Q333	I-2
Q334	I-2
Q336	I-3
Q339	I-4
Q342	I-3
Q801	H-7
Q802	H-9
Q803	H-8
Q804	I-8
Q901	C-11
Q902	B-11
Q903	B-11
Q904	B-11
Q905	B-11
Q906	B-11
Q911	F-9
Q912	F-9
Q913	F-9
Q914	F-9
Q931	G-10
Q932	G-9
Q961	A-10
Q962	A-10

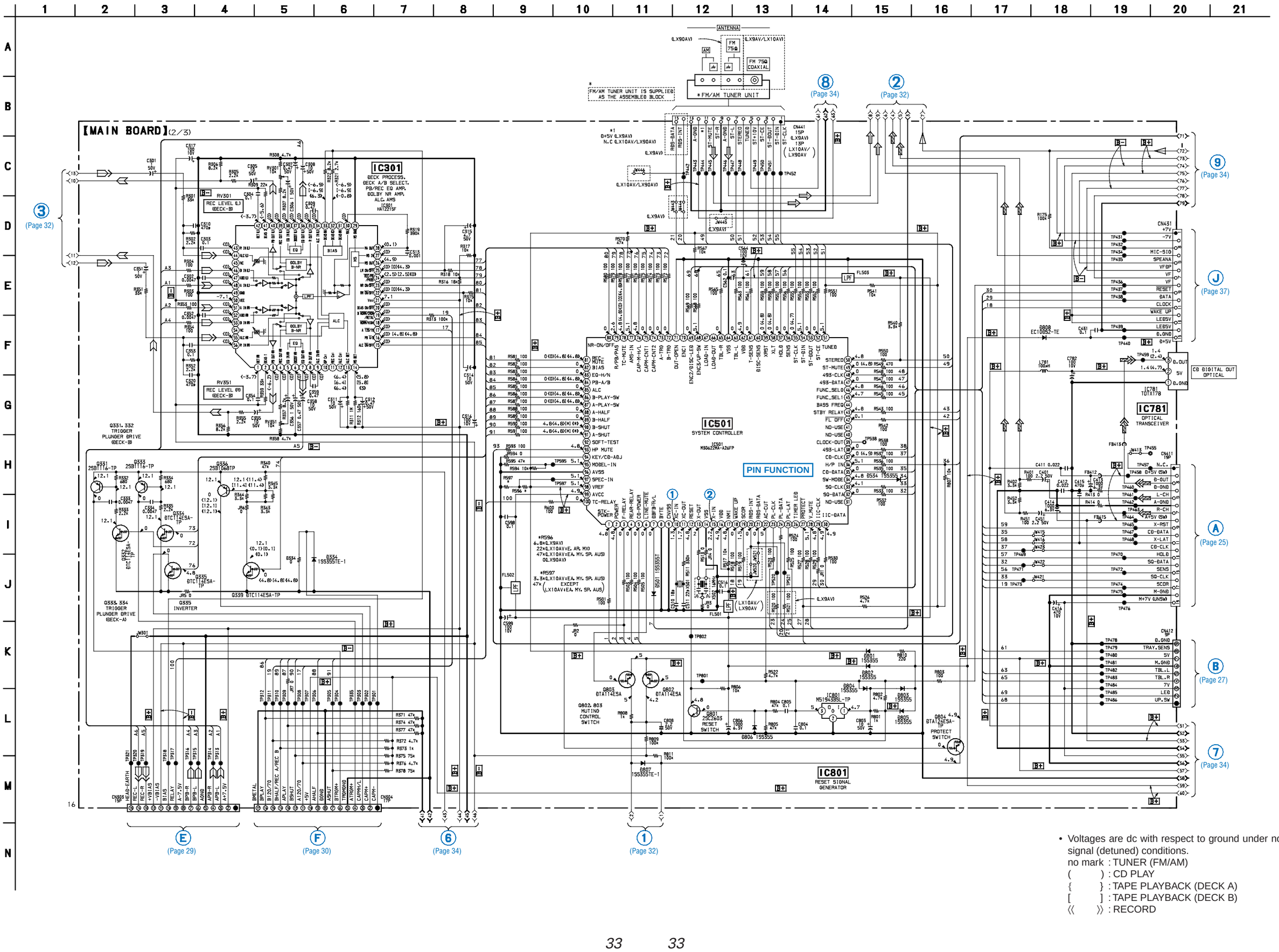
7-12. SCHEMATIC DIAGRAM – MAIN Board (1/3) –



- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER (FM/AM)

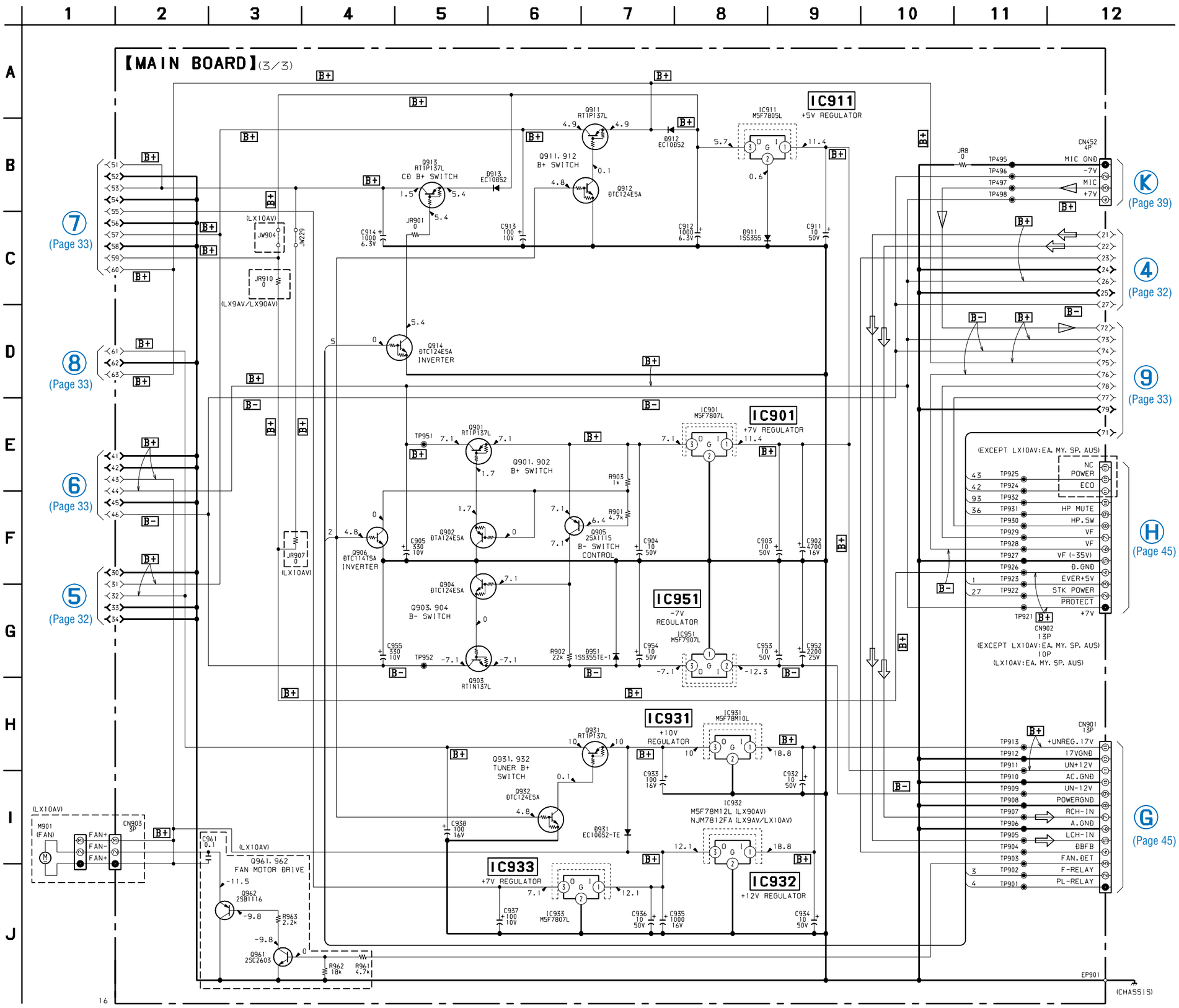
7-13. SCHEMATIC DIAGRAM – MAIN Board (2/3) –

• See page 35 for Waveforms. • See page 52 for Pin Function Description.



- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER (FM/AM)
  ( ) : CD PLAY
  { } : TAPE PLAYBACK (DECK A)
  [ ] : TAPE PLAYBACK (DECK B)
  ⟨⟨ ⟩⟩ : RECORD

7-14. SCHEMATIC DIAGRAM – MAIN Board (3/3) –

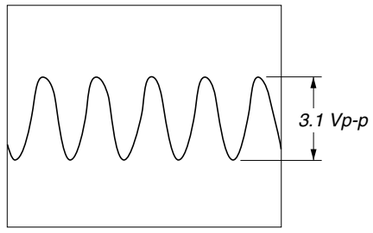


- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

• **Waveforms**

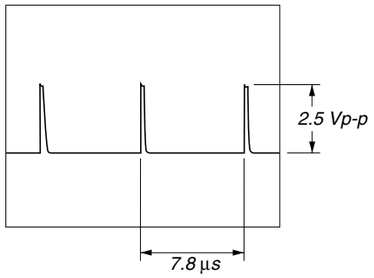
– BD Board –

❶ IC101 ⑥⑦ (XTAO)

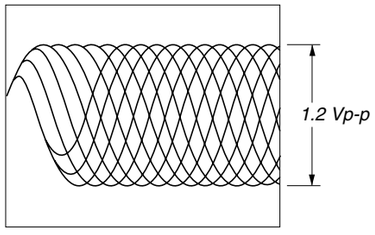


16.9344 MHz

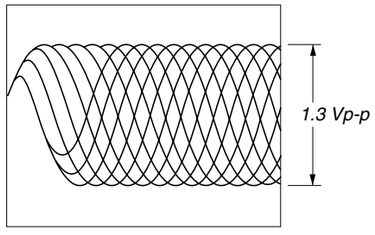
❺ IC101 ㉖ (MDP) (CD PLAY MODE)



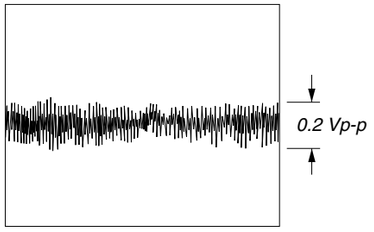
❷ IC101 ⑤① (RF AC) (CD Play Mode)



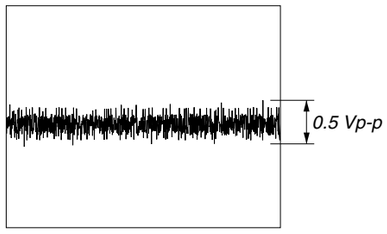
❻ IC102 ⑯ (RFO) (CD Play Mode)



❸ IC101 ④① (TE) (CD Play Mode)

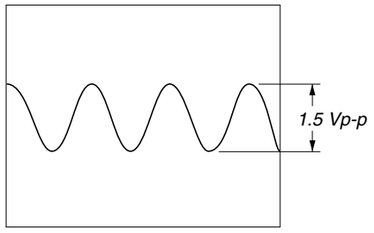


❹ IC101 ③⑨ (FE) (CD Play Mode)



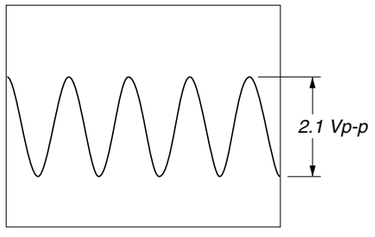
– MAIN Board –

❶ IC501 ⑩ (XC-IN)



32.768 kHz

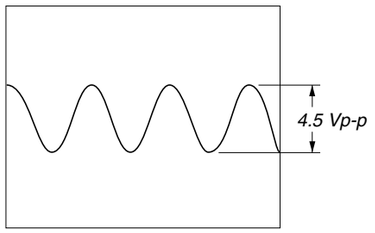
❷ IC501 ⑮ (XIN)



16 MHz

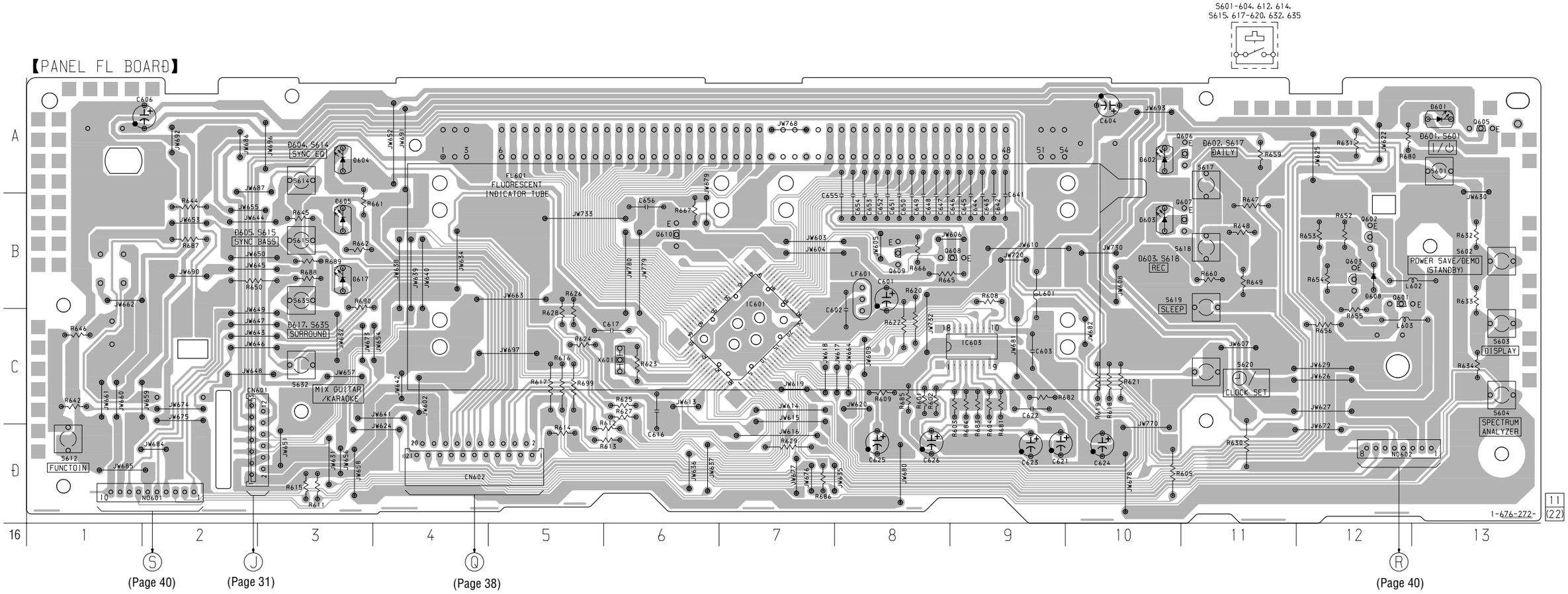
– PANEL FL Board –

❶ IC601 ⑦② (XOUT)



12.5 MHz

7-15. PRINTED WIRING BOARD – PANEL FL Board – • See page 20 for Circuit Boards Location.

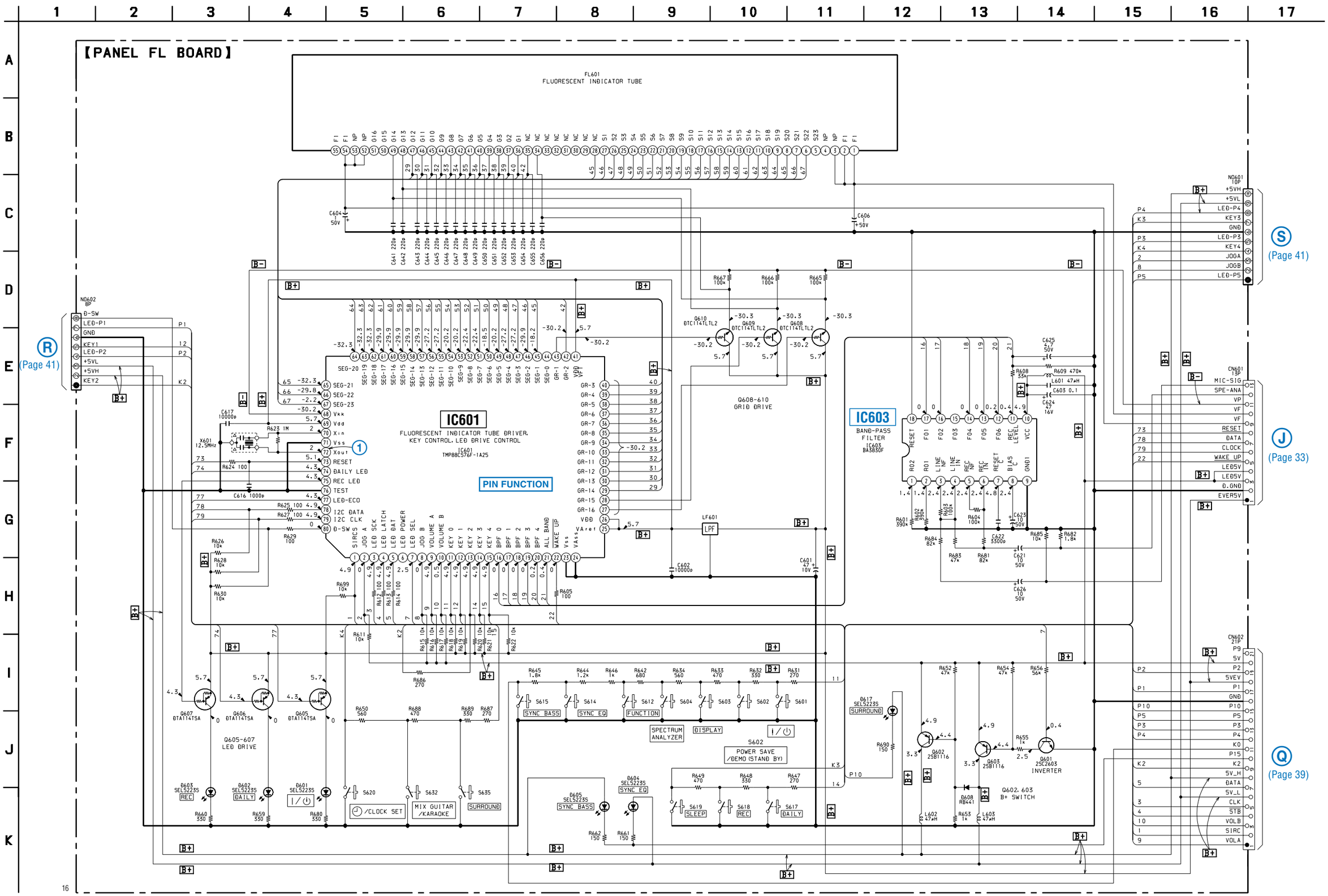


- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D601	A-13	Q601	B-12
D602	A-10	Q602	B-12
D603	B-10	Q603	B-12
D604	A-3	Q605	A-13
D605	B-3	Q606	A-11
D608	B-12	Q607	B-11
D617	B-3	Q608	B-9
		Q609	B-8
IC601	C-7	Q610	B-6
IC603	C-9		

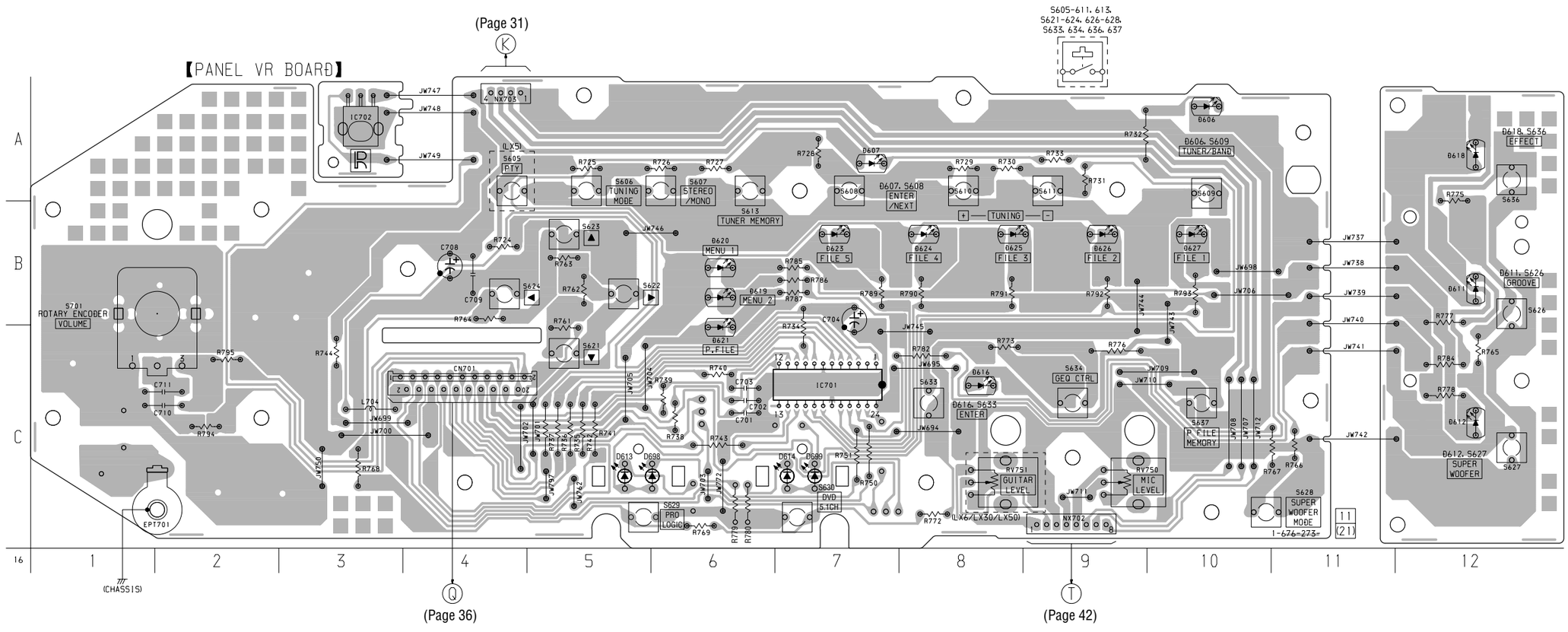
7-16. SCHEMATIC DIAGRAM – PANEL FL Board –

• See page 35 for Waveforms. • See page 50 for IC Block Diagrams. • See page 52 for IC Pin Function Description.



• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

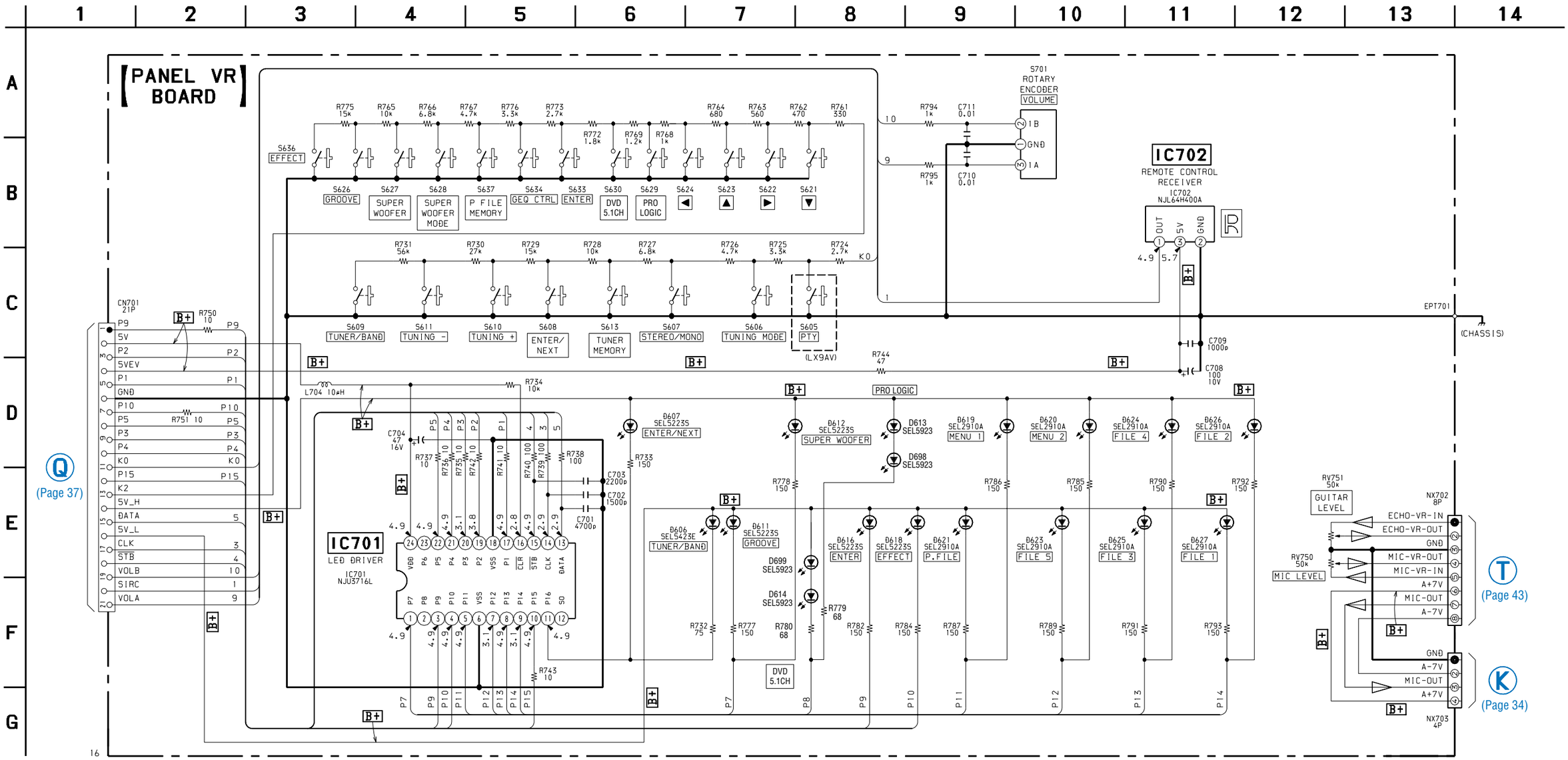
7-17. PRINTED WIRING BOARD – PANEL VR Board – • See page 20 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D606	A-10	D623	B-7
D607	A-7	D624	B-8
D611	B-12	D625	B-8
D612	C-12	D626	B-9
D613	C-5	D627	B-10
D614	C-7	D698	C-6
D616	C-8	D699	C-7
D618	A-12		
D619	B-6	IC701	C-7
D620	B-6	IC702	A-3
D621	C-6		

7-18. SCHEMATIC DIAGRAM – PANEL VR Board – • See page 50 for IC Block Diagrams.

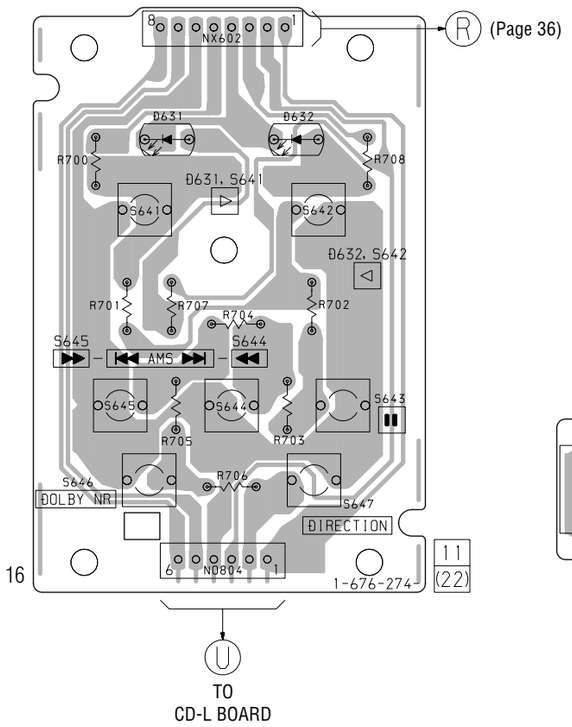


• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

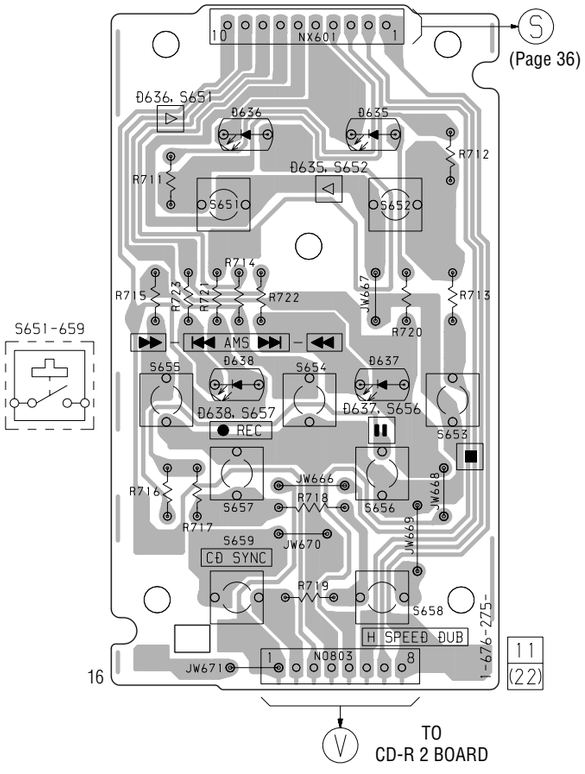
7-19. PRINTED WIRING BOARDS – TC-A/TC-B/CD-L/CD-L2/CD-R/CD-R2 Boards –

• See page 20 for Circuit Boards Location.

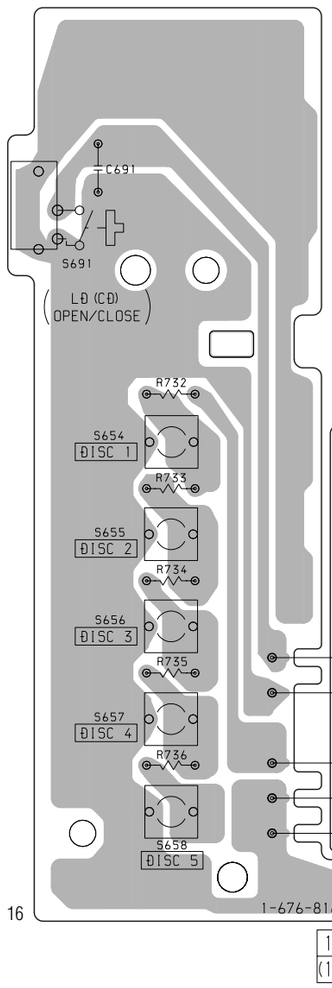
【TC-A BOARD】



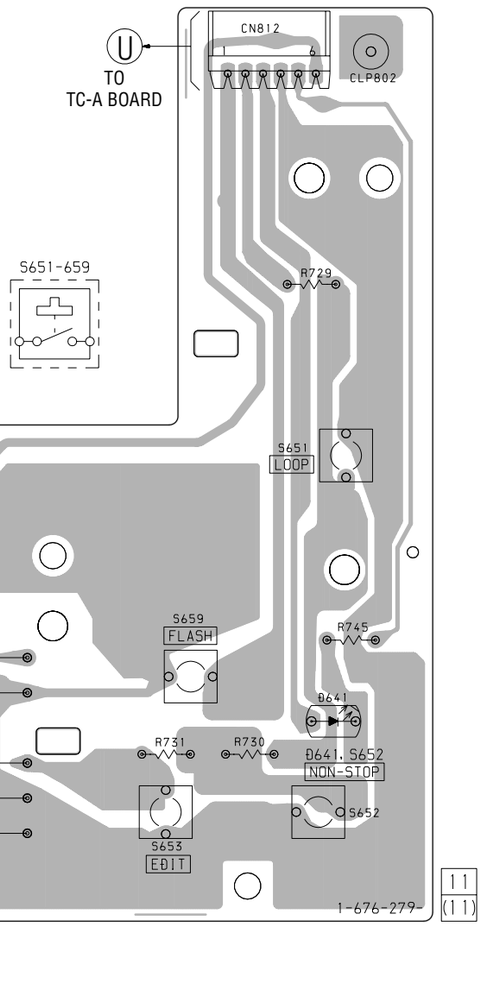
【TC-B BOARD】



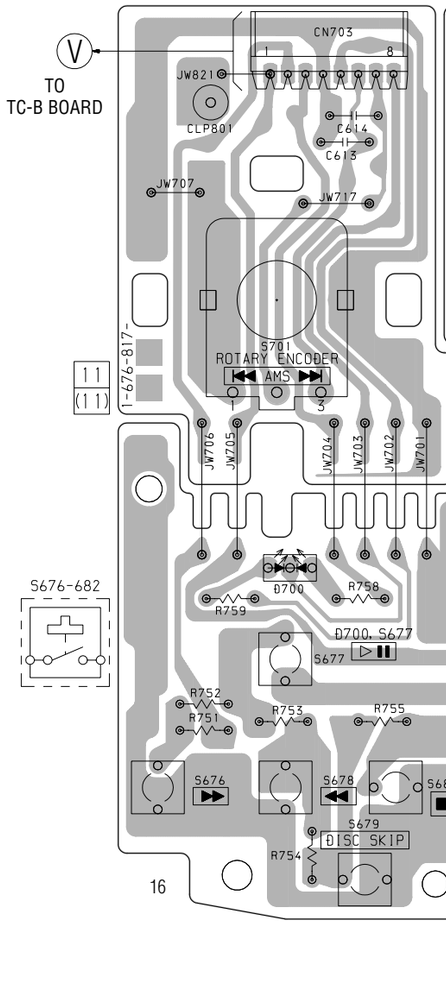
【CD-L2 BOARD】



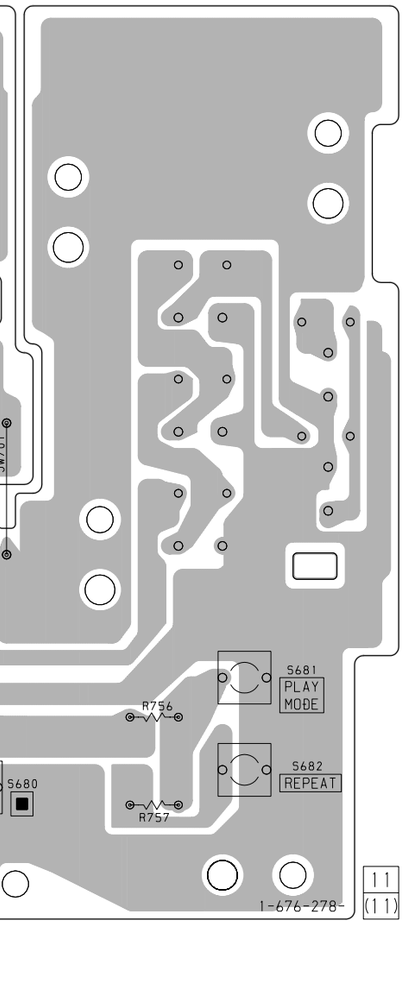
【CD-L BOARD】



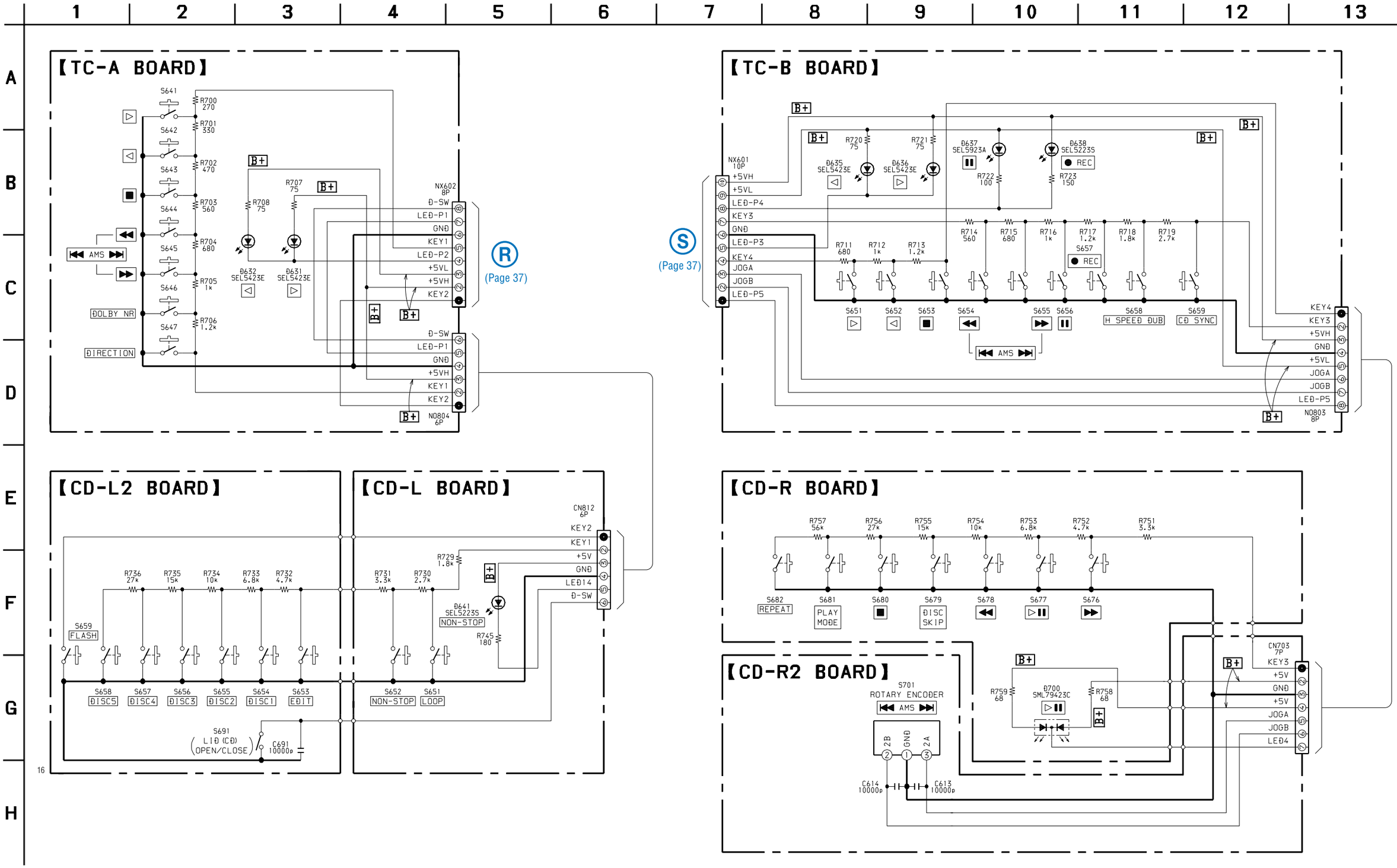
【CD-R2 BOARD】



【CD-R BOARD】

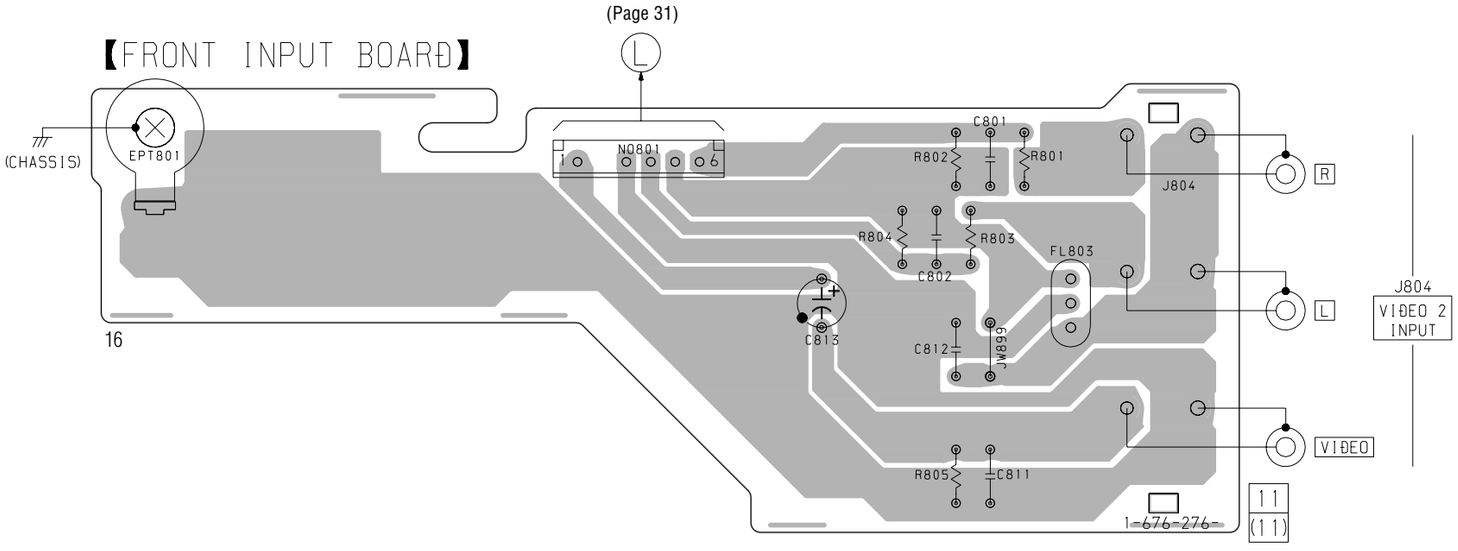


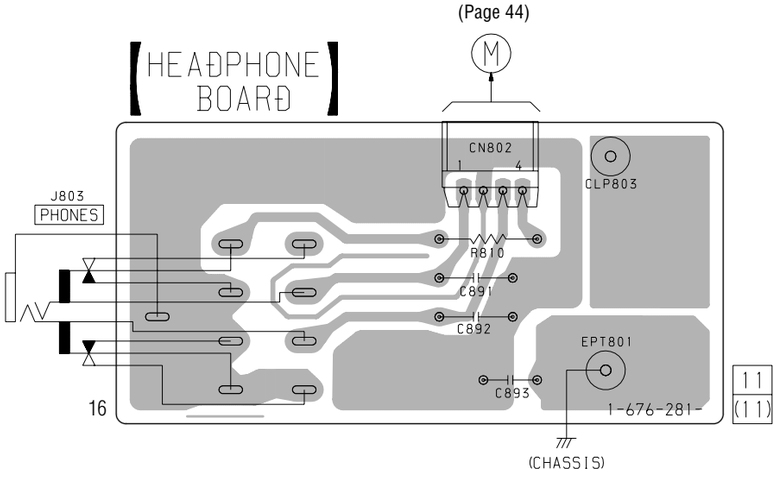
7-20. SCHEMATIC DIAGRAM – TC-A/TC-B/CD-L/CD-L2/CD-R/CD-R2 Boards –

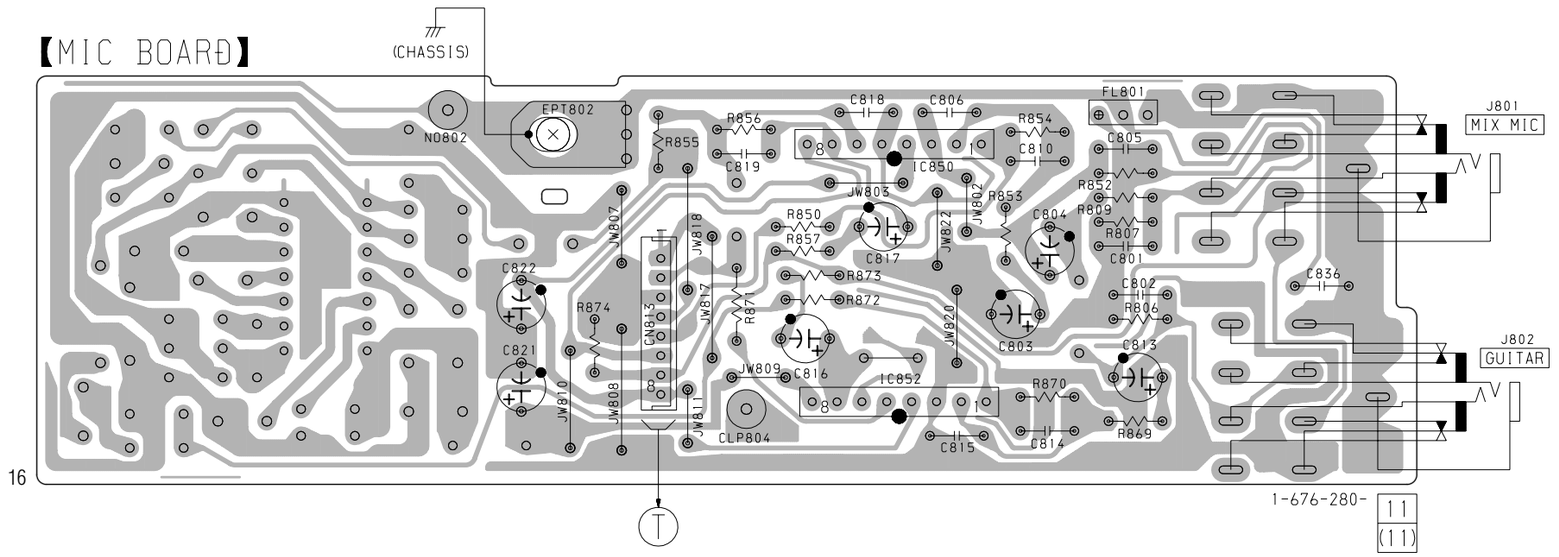


• Voltages are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

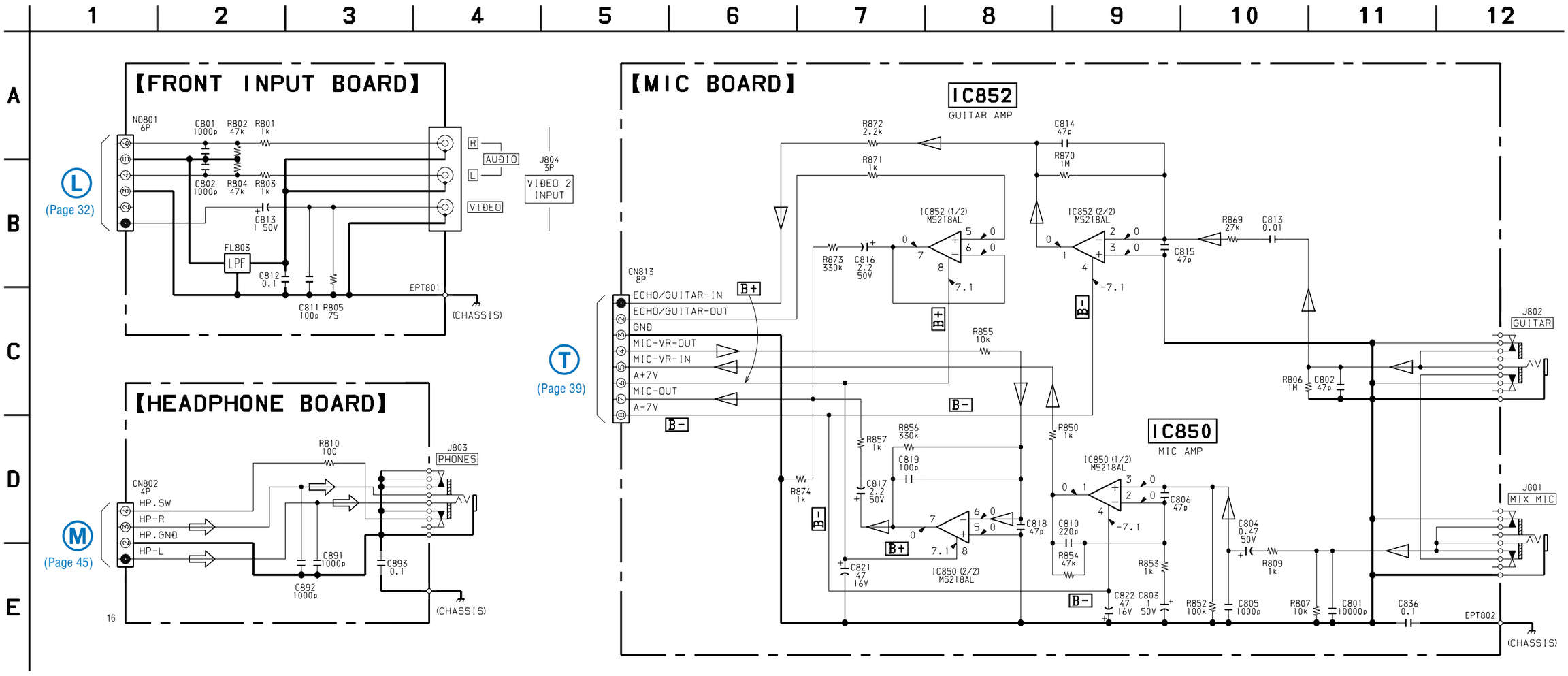
7-21. PRINTED WIRING BOARDS – FRONT INPUT/HEADPHONE/MIC Boards – • See page 20 for Circuit Boards Location.







7-22. SCHEMATIC DIAGRAM – FRONT INPUT/HEADPHONE/MIC Boards –

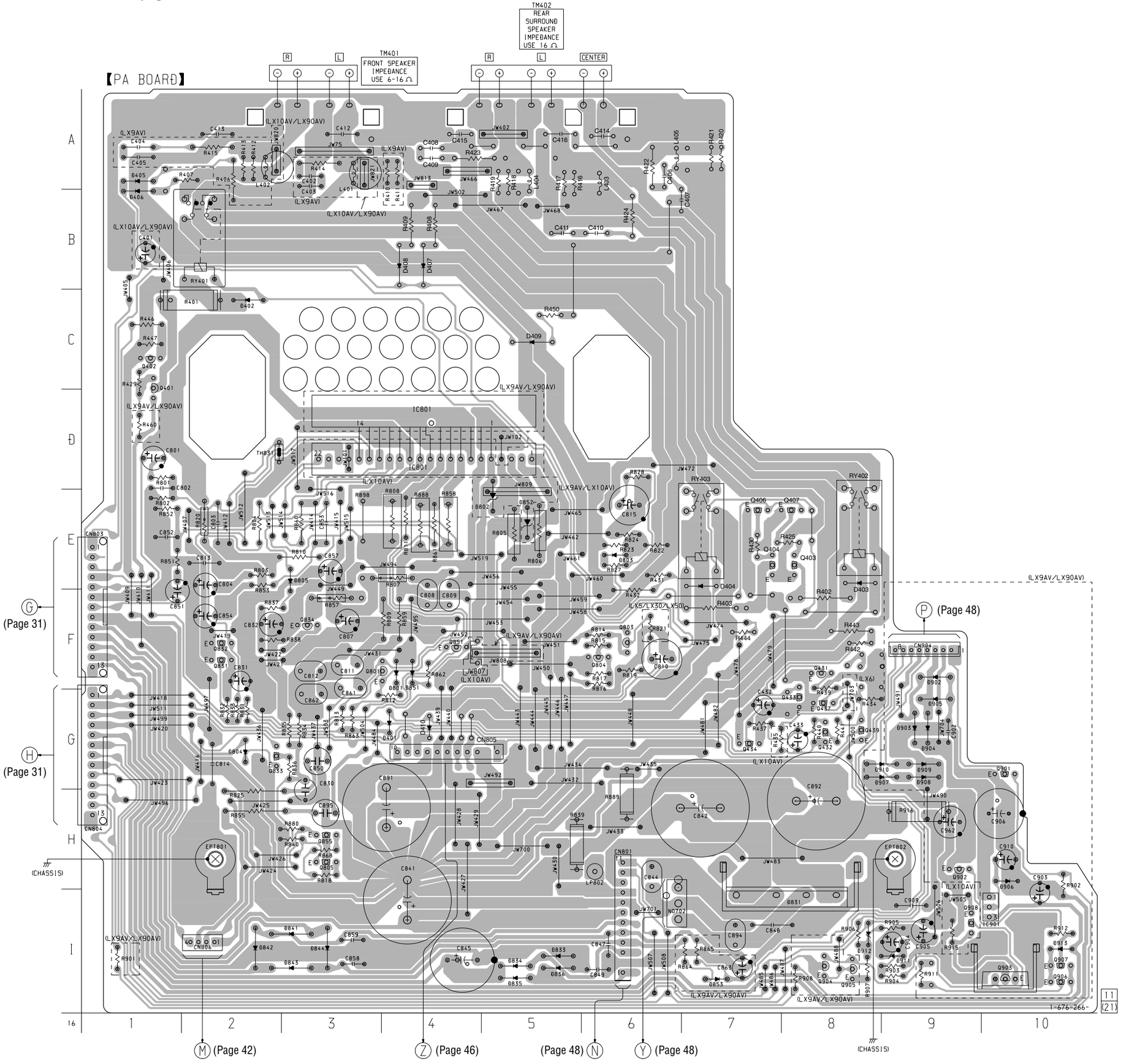


- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

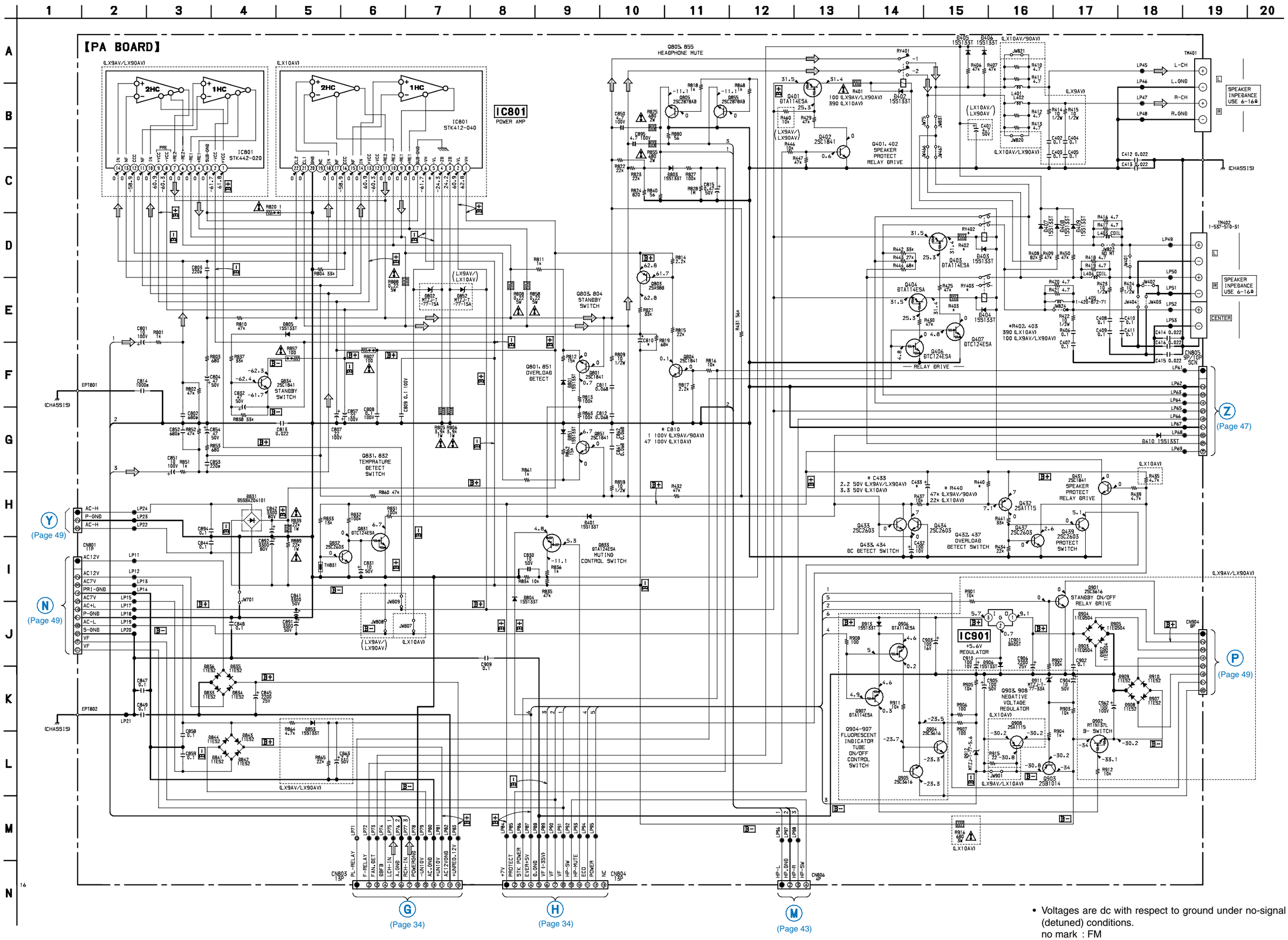
7-23. PRINTED WIRING BOARD – PA Board – • See page 20 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
D401	G-4
D402	C-2
D403	E-8
D404	E-7
D405	A-1
D406	B-1
D407	B-4
D408	B-4
D409	C-5
D410	G-4
D801	F-4
D802	E-5
D803	E-6
D804	G-2
D805	E-3
D831	I-8
D833	I-5
D834	I-5
D835	I-5
D836	I-5
D841	I-3
D842	I-2
D843	I-3
D844	I-3
D851	F-4
D852	E-5
D853	I-7
D902	F-9
D903	G-9
D904	G-9
D905	G-9
D906	H-10
D907	G-8
D908	G-9
D909	G-9
D910	G-8
D911	I-9
D912	I-8
D913	I-10
IC801	D-4
IC901	I-10
Q401	C-1
Q402	C-1
Q403	E-7
Q404	E-7
Q406	E-7
Q407	E-7
Q431	F-8
Q432	G-8
Q433	G-8
Q434	G-7
Q437	G-8
Q439	G-8
Q801	F-3
Q803	F-6
Q804	F-6
Q805	H-3
Q831	F-2
Q832	F-2
Q833	G-2
Q834	F-3
Q851	F-4
Q855	H-3
Q901	G-10
Q902	H-9
Q903	I-10
Q904	I-8
Q905	I-8
Q906	I-10
Q907	I-10
Q908	I-9

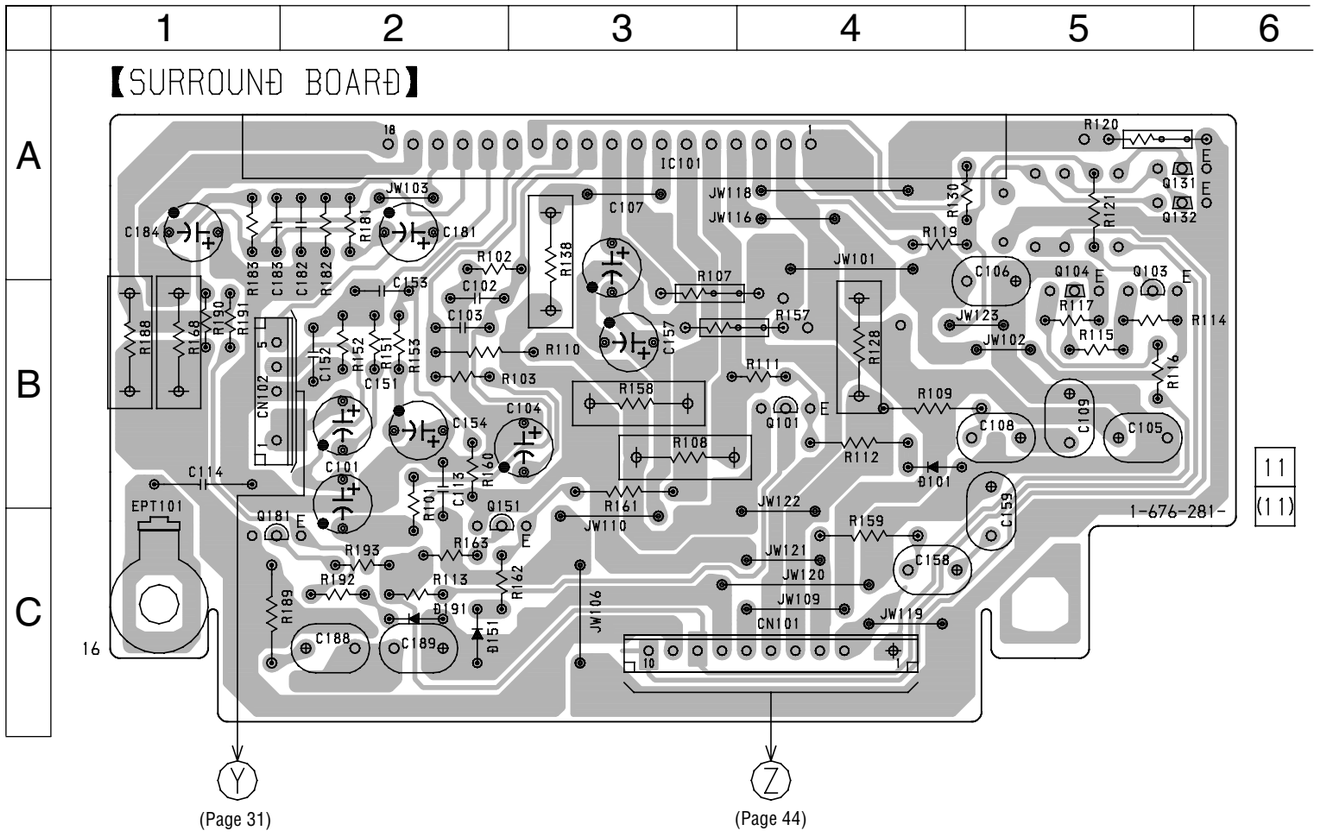


7-24. SCHEMATIC DIAGRAM – PA Board –

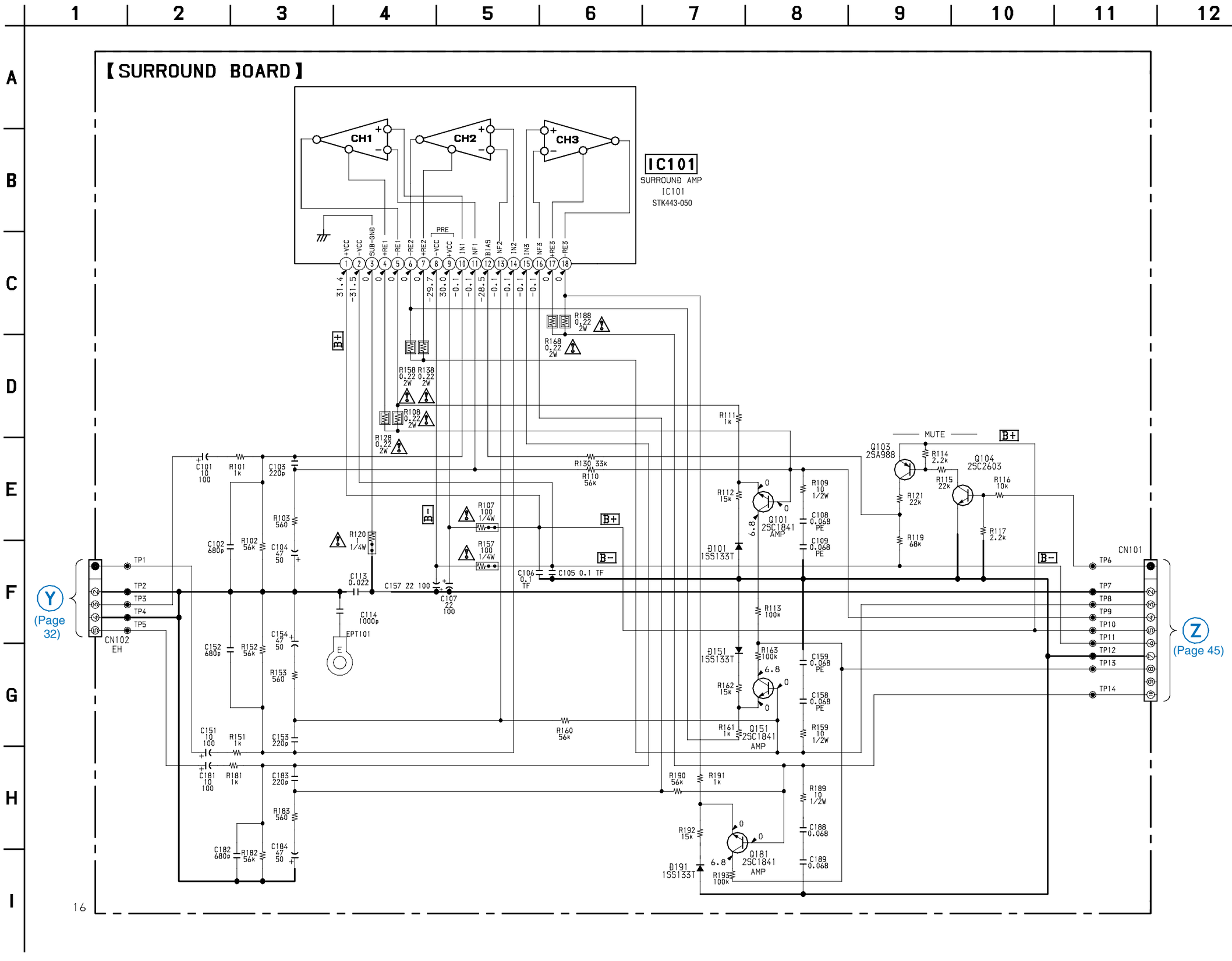


- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

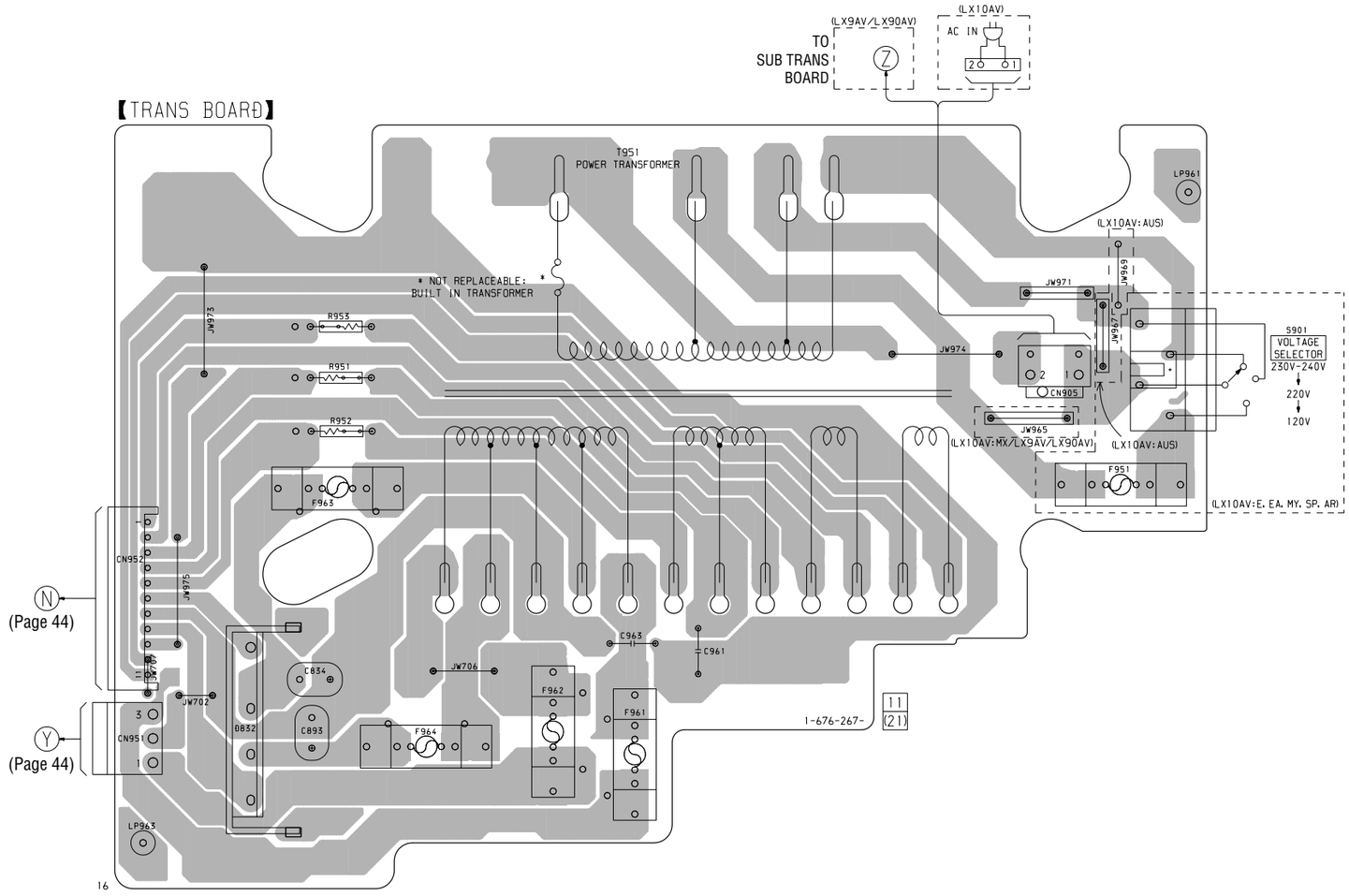
7-25. PRINTED WIRING BOARD – SURROUND Board – • See page 20 for Circuit Boards Location.

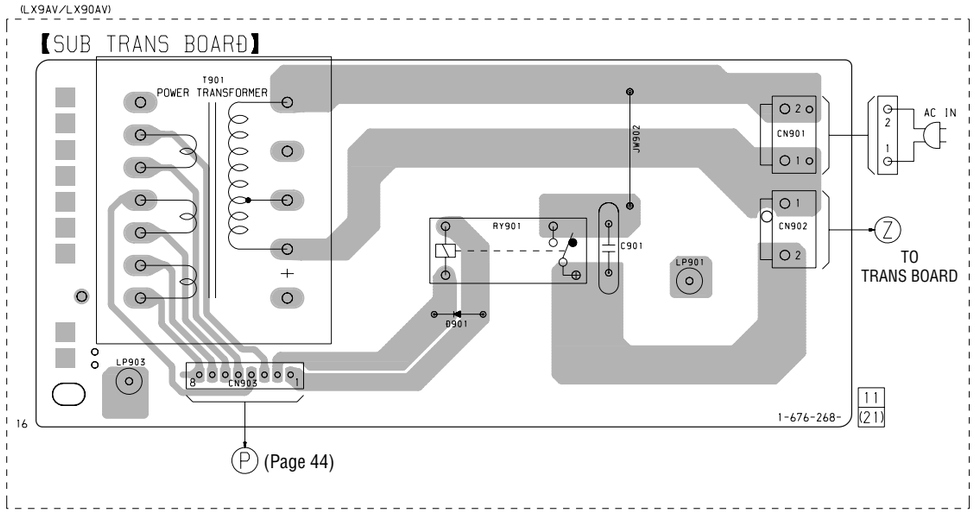


7-26. SCHEMATIC DIAGRAM – SURROUND Board –

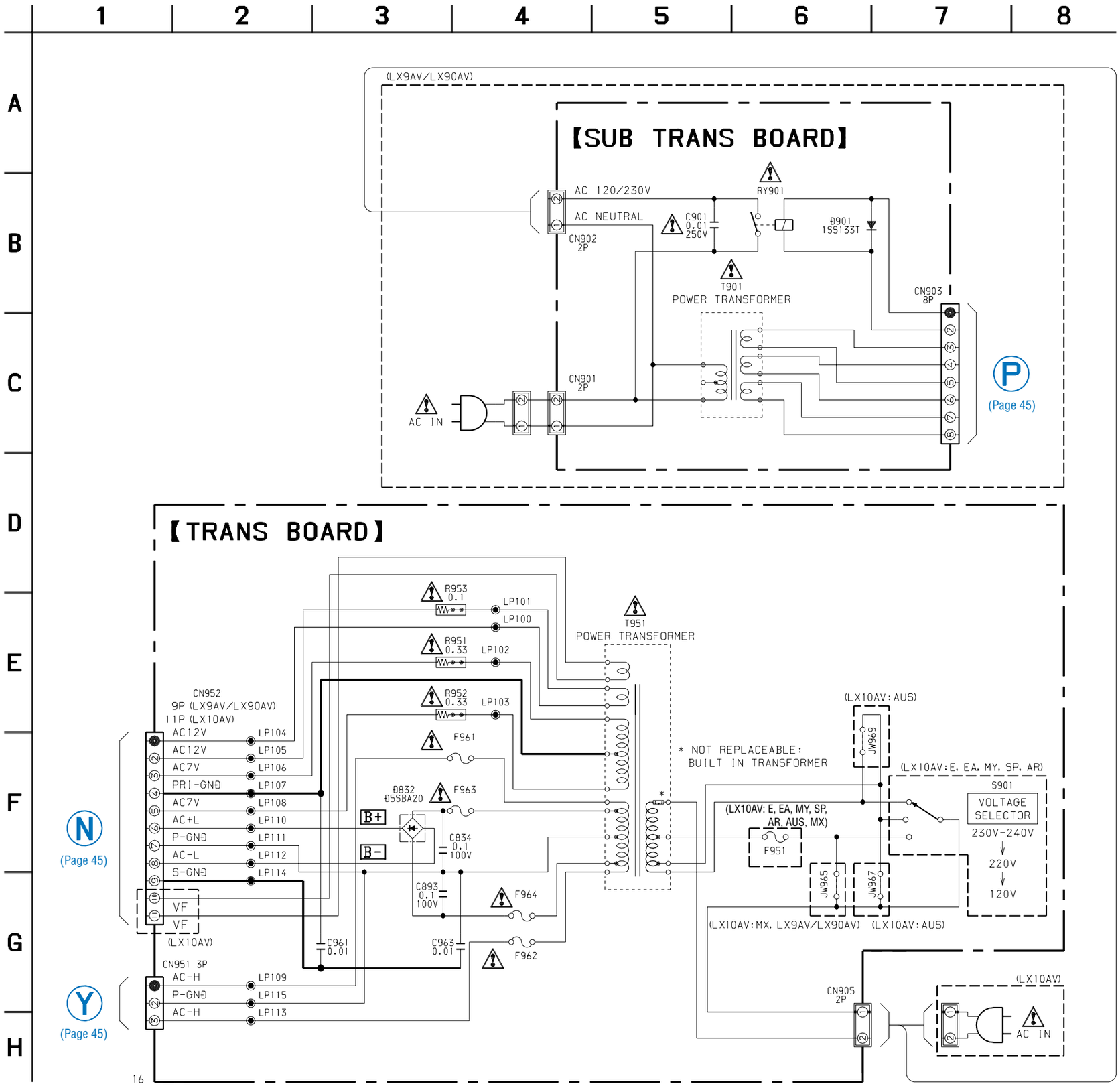


7. PRINTED WIRING BOARDS – TRANS/SUB TRANS Boards – • See page 20 for Circuit Boards Location.





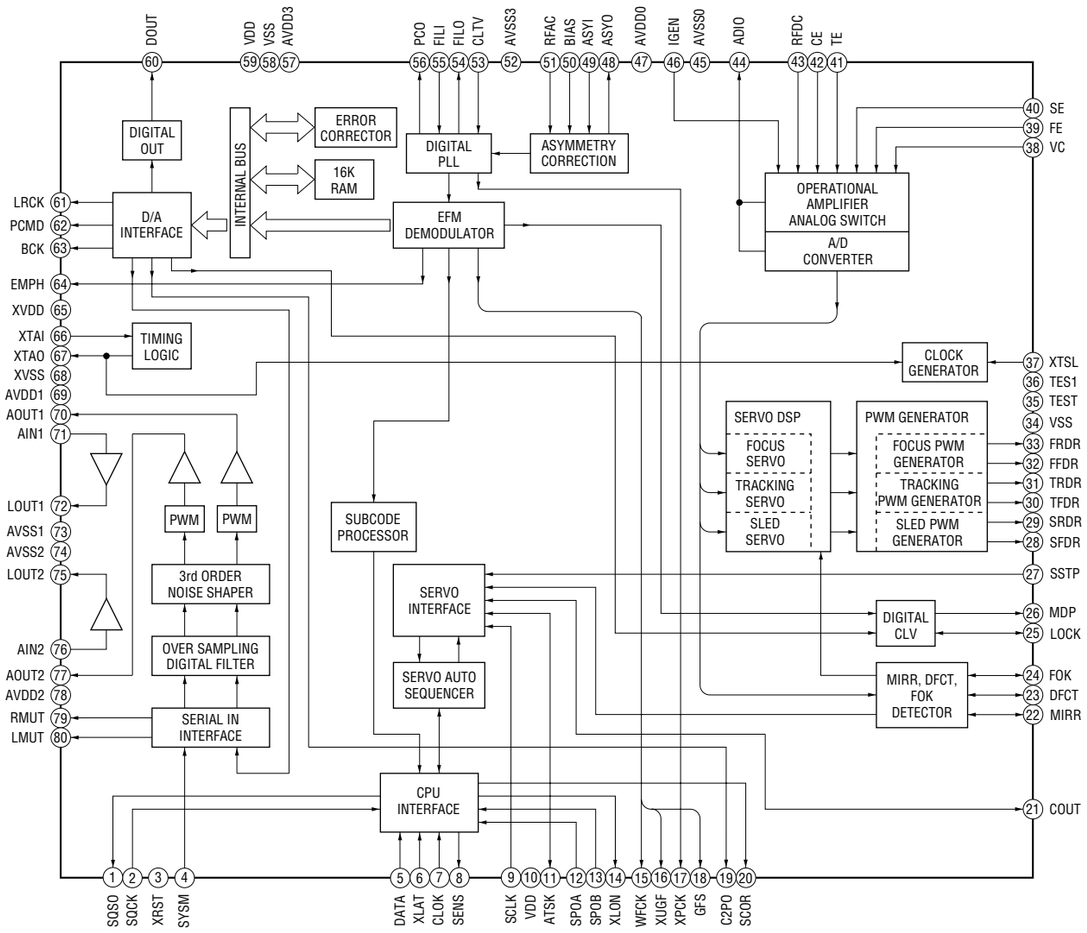
7-28. SCHEMATIC DIAGRAM – TRANS/SUB TRANS Boards –



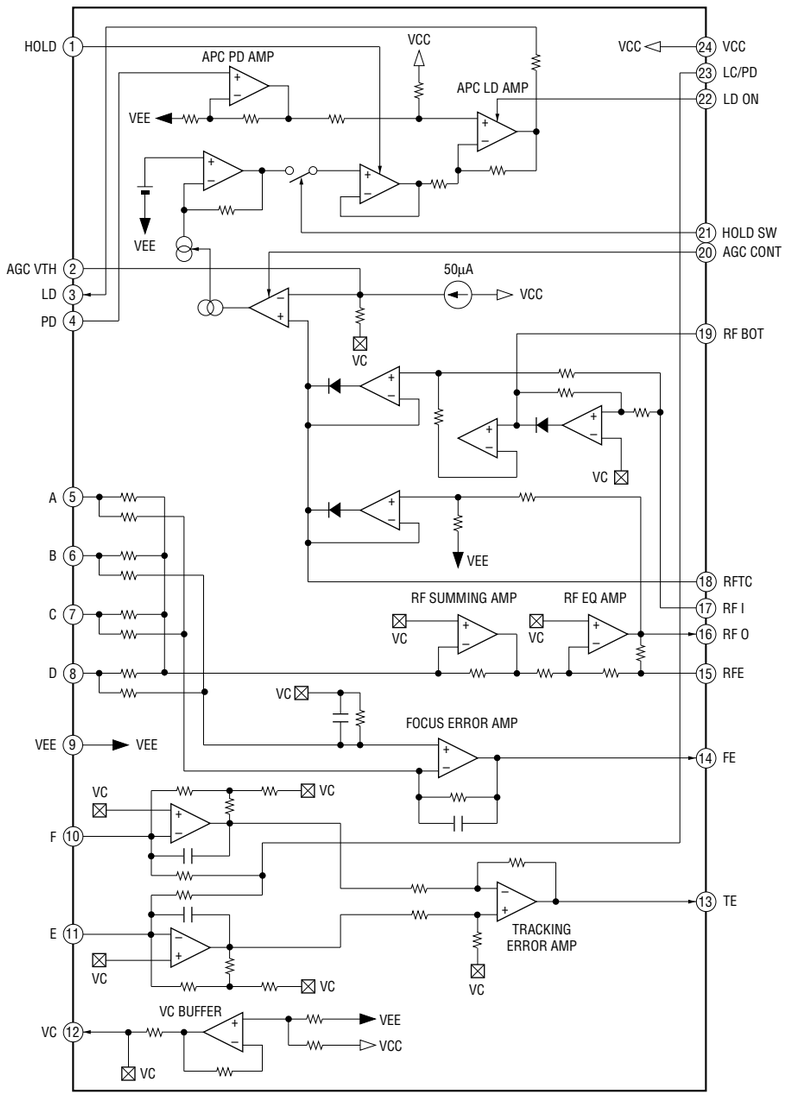
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

• **IC Block Diagrams**
– BD Board –

IC101 CXD2587Q

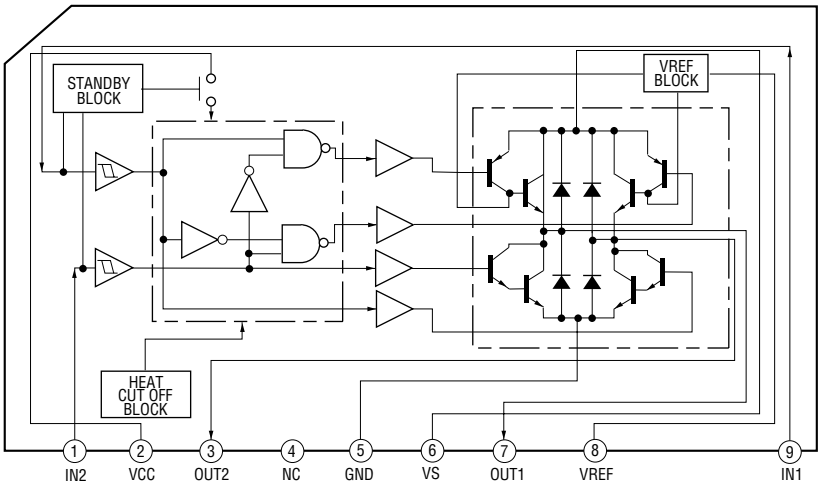


IC103 CXA2568M-T6



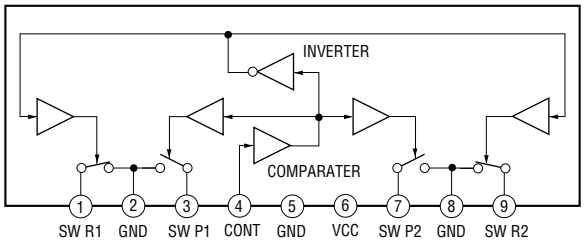
– CD MOTOR Board –

IC201 TA8409S



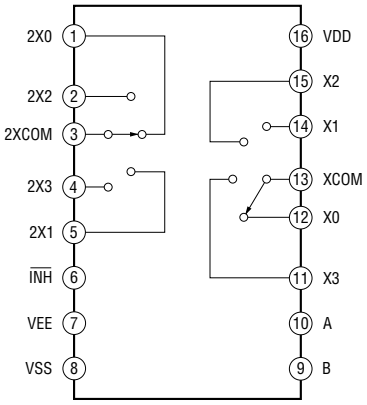
– AUDIO Board –

IC602 µPC1330HA



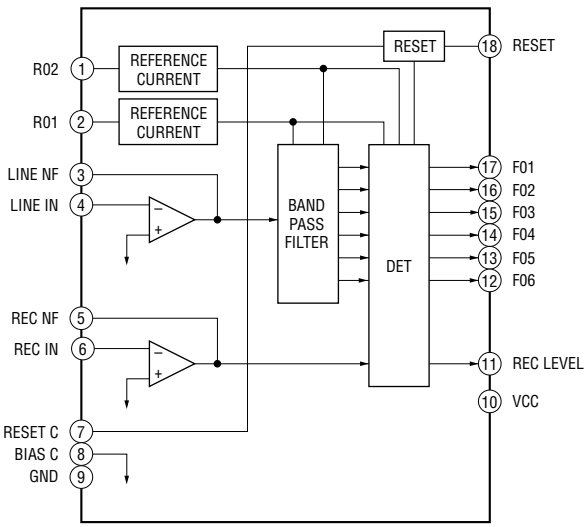
– MAIN Board –

IC181 MC14052BF



– PANEL FL Board –

IC603 BA3830F



7-23. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 M30622MA-A26FP

Pin No.	Pin Name	I/O	Function
1	POWER	O	Power amp ON/OFF signal output
2	POWER	O	Power ON/OFF signal output
3	F-RELAY	O	Front speaker relay control output
4	REAR-RELAY	O	Rear speaker relay control output (Not used)
5	CD-POWER	O	CD power on signal output
6	LINE-MUTE	O	Line mute signal output
7	DBFB-H/L	O	DBFB H/L select signal output
8	—	—	Connected to ground
9	—	—	Connected to ground
10	XC-IN	I	X'tal (32.768 KHz) (SUB CLOCK)
11	XC-OUT	O	
12	RESET	I	System reset signal input
13	X-OUT	O	X'tal (16MHz) (MAIN SYSTEM CLOCK)
14	VSS	—	Ground
15	X-IN	I	X'tal (16MHz) (MAIN SYSTEM CLOCK)
16	VDD	—	Power supply (+5V)
17	NMI	I	Not used
18	WAKE UP	I	WAKE UP signal input
19	SCOR	I	CD Q-data request signal input
20	RDS-INT	I	RDS data interrupt input
21	RDS-DATA	I	RDS data interrupt input
22	AC-CUT	I	AC cut ON (L)/OFF (H) check
23	PL-CLK	O	Clock output to pro-logic (Not used)
24	PL-DATA	O	Data output to pro-logic (Not used)
25	PL-LAT	O	Latch signal output to pro-logic (Not used)
26	TIMER LED	O	Not used
27	PROTECT	I	Speaker protect signal input
28	V MUTE	O	Video mute signal output
29	IIC-CLK	O	I^2C SCL
30	IIC-DATA	O	I^2C SDA
31	—	—	Not used
32	SQ-DATA	I	Subcode Q data clock input (CD data)
33	SQ-CLK	O	Subcode Q data clock output (CD data clock)
34	SW-MODE	O	SW-MODE music/movie select signal output
35	CD-DATA	O	CD data output
36	H/P IN	I	Head phone detect
37	CD-CLK	O	CD clock output
38	493-LAT	O	Latch signal output for IC101 (M62493FP)
39	CLOCK-OUT	O	Clock out signal check
40	NO-USE	—	Not used
41	NO-USE	—	Not used
42	FL OFF	O	Fluorescent indicator tube filament on/off signal output
43	STBY RELAY	O	Main POWER on/off signal output
44	BASS FREQ	O	FREQ high/low signal output (Not used)
45	FUNC SEL 1	O	Function select signal output
46	FUNC SEL 0	O	Function select signal output
47	493-DATA	O	Data signal output for IC101 (M62493FP)
48	493-CLK	O	Clock signal output for IC101 (M62493FP)
49	ST-MUTE	O	Tuner mute signal output
50	STEREO	I	Stereo detection for tuner

Pin No.	Pin Name	I/O	Function
51	TUNED	I	Tuned detection for tuner
52	ST-CE	O	Tuner chip enable output
53	ST-DOUT	O	Tuner data output
54	ST-DIN	I	Tuner data input
55	ST-CLK	O	Tuner clock output
56	SENS	I	BD Condition signal input
57	HOLD	O	MODE signal output
58	XLT	O	CD latch signal output
59	XRST	O	CD reset signal output
60	DISC-SENS	I	Slit sensor of disc table input (Connected to ground)
61	T-SENS	I	CD table detection signal input
62	VDD	—	Power supply (+5V)
63	TBL-L	O	Table motor control output
64	VSS	I	Ground
65	TBL-R	O	Table motor control output
66	LOAD-OUT	O	Loading motor control signal output (Not used)
67	LOAD-IN	O	Loading motor control signal input (Not used)
68	ENC 3/UP-SW	I	Disc tray UP signal input.
69	ENC 2/DISC-LED	I	Disc LED signal output
70	ENC 1	I	(Connected to ground)
71	OUT-OPEN	O	(Connected to ground) Loading out detection signal output
72	B-TRG	O	B deck trigger motor control output
73	A-TRG	O	A deck trigger motor control output
74	CAP-M-COT2	O	Capstan motor REW/FWD/STOP signal output
75	CAP-M-COT1	O	Capstan motor REW/FWD/STOP signal output
76	CAP-M-H/L	O	Capstan motor High/Low speed select signal output
77	AMS-IN	I	AMS signal input
78	TC-MUTE	O	TC line mute ON/OFF selection output
79	R/PB/PAS	O	REC/PB/PASS selection output
80	NR-ON/OFF	O	DOLBY NR ON/OFF signal output
81	REC-MUTE	O	REC mute ON/OFF selection output
82	BIAS	O	Bias ON/OFF signal output
83	EQ-H/N	O	Equalizer High/Normal select output
84	PB-A/B	O	PB A deck/B deck select output
85	ALC	O	ALC ON/OFF output signal
86	B-PLAY-SW	I	B deck play detect
87	A-PLAY-SW	I	A deck play detect
88	A-HALF	I	A Deck half detector signal input
89	B-HALF	I	B Deck half detector signal input
90	B-SHUT	I	B Deck reel pulse detector
91	A-SHUT	I	A Deck reel pulse detector
92	SOFT-TEST	O	Software test port (Not used)
93	HP-MUTE	O	Head phone mute signal output
94	KEY/CD-ADJ	I	KEY (use the jig)/CD adjust point port
95	MODEL IN	I	MODEL input
96	AVSS	—	Analog ground
97	SPEC-IN	I	Specifications input
98	VREF	I	Analog reference voltage input
99	AVCC	—	Analog power supply (+5V)
100	TC-RELAY	O	REC/PB head selection output for IC602

• PANEL BOARD IC601 TMP88CC76F-1A25 (FLUORESCENT INDICATOR TUBE DRIVE, LED DRIVE, KET CONTROL)

Pin No.	Pin Name	I/O	Function
1	SIRCS	I	Remote commander signal input
2	JOG A	I	Rotary encoder (S702) pulse input
3	LED SCK	O	LED clock signal output
4	LED LATCH	O	LED latch signal output
5	LED DAT	O	LED serial data output
6	LED POWER	—	Not used
7	LED SEL	O	LED select signal output
8	JOG B	I	Rotary encoder (S702) pulse input
9	VOLUME A	I	Rotary encoder (S701) pulse input
10	VOLUME B	I	
11 to 15	KEY 0 to KEY 4	I	Key input
16 to 20	BPF 0 to BPF 4	I	Rec level signal input
21	ALL BAND	O	Rec level signal output for auto DBDF
22	WAKE UP	O	Gradation right/WAKE UP signal output
23	Vss	—	Ground
24	VAss	—	
25	VAref	I	Analog reference voltage input
26	VDD	–	Power supply (+5V)
27 to 40	GR 3 to GR 16	O	FL gride signal output
41	VDD VFT	—	Power supply (+5V) for VFT
42, 43	GR 1, GR 2	O	FL gride signal output
44	SEG 0	O	FL segment signal output (Not used)
45 to 67	SEG 1 to SEG 23	O	FL segment signal output
68	Vkk	—	Power supply (-25V) for FL segment signal output
69	Vdd	—	Power supply (+5V)
70	X in	I	X'tal (12.5MHz)
71	Vss	—	Ground
72	X out	O	X'tal (12.5MHz)
73	RESET	I	Reset signal input from main controller
74	DAILY LED	O	LED driver output
75	REC LED	O	
76	TEST	I	Connected ground
77	LED-ECO	O	LED driver output
78	I^2C DATA	I	I^2C SDA input from master controller
79	I^2C CLK	I	I^2C SCL input from master controller
80	D-SW	I	Door switch signal input

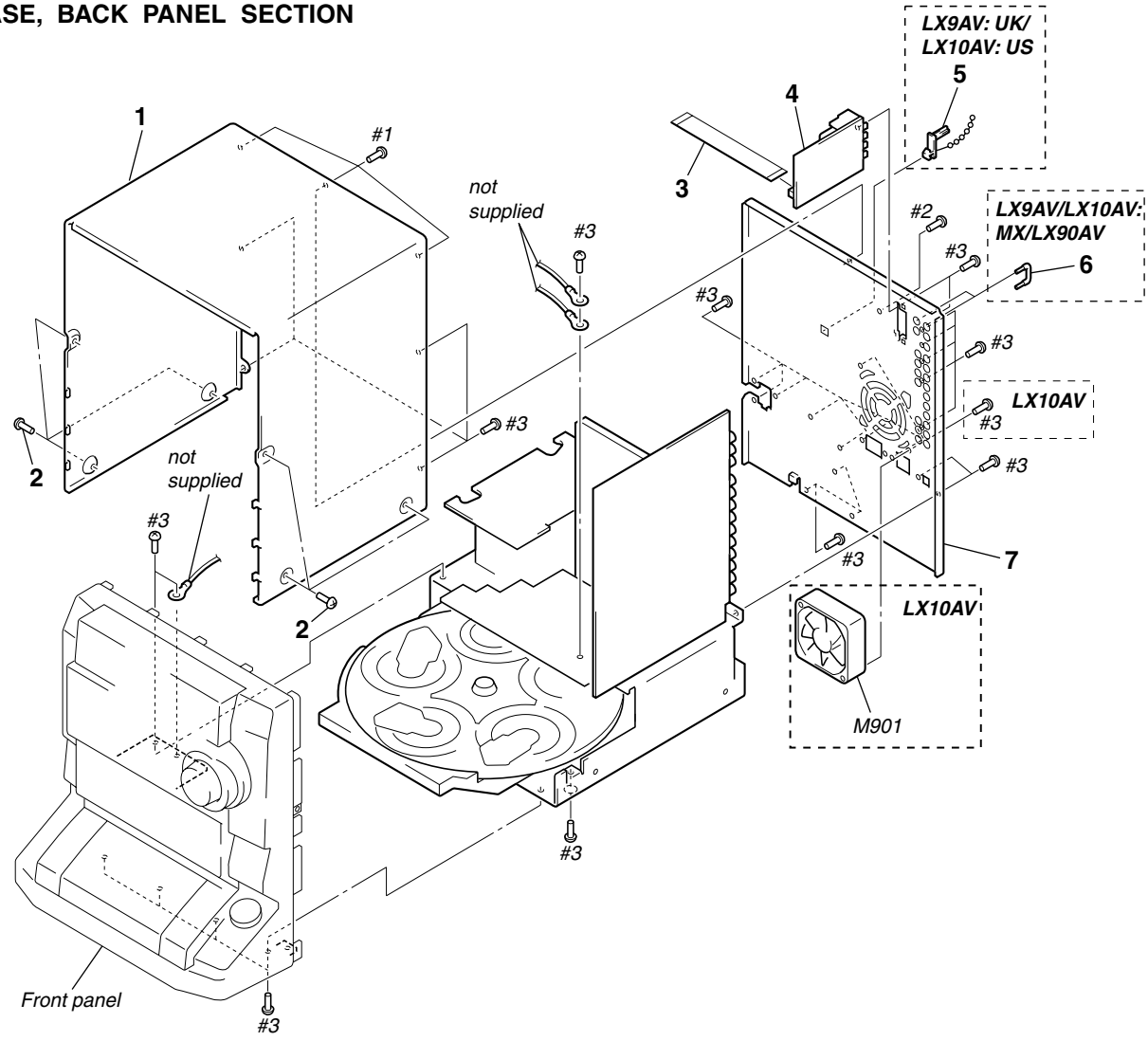
SECTION 8
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  AR : Argentine model MX : Mexican model
  AUS : Australian model MY : Malaysia model
  EA : Saudi Arabia model SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

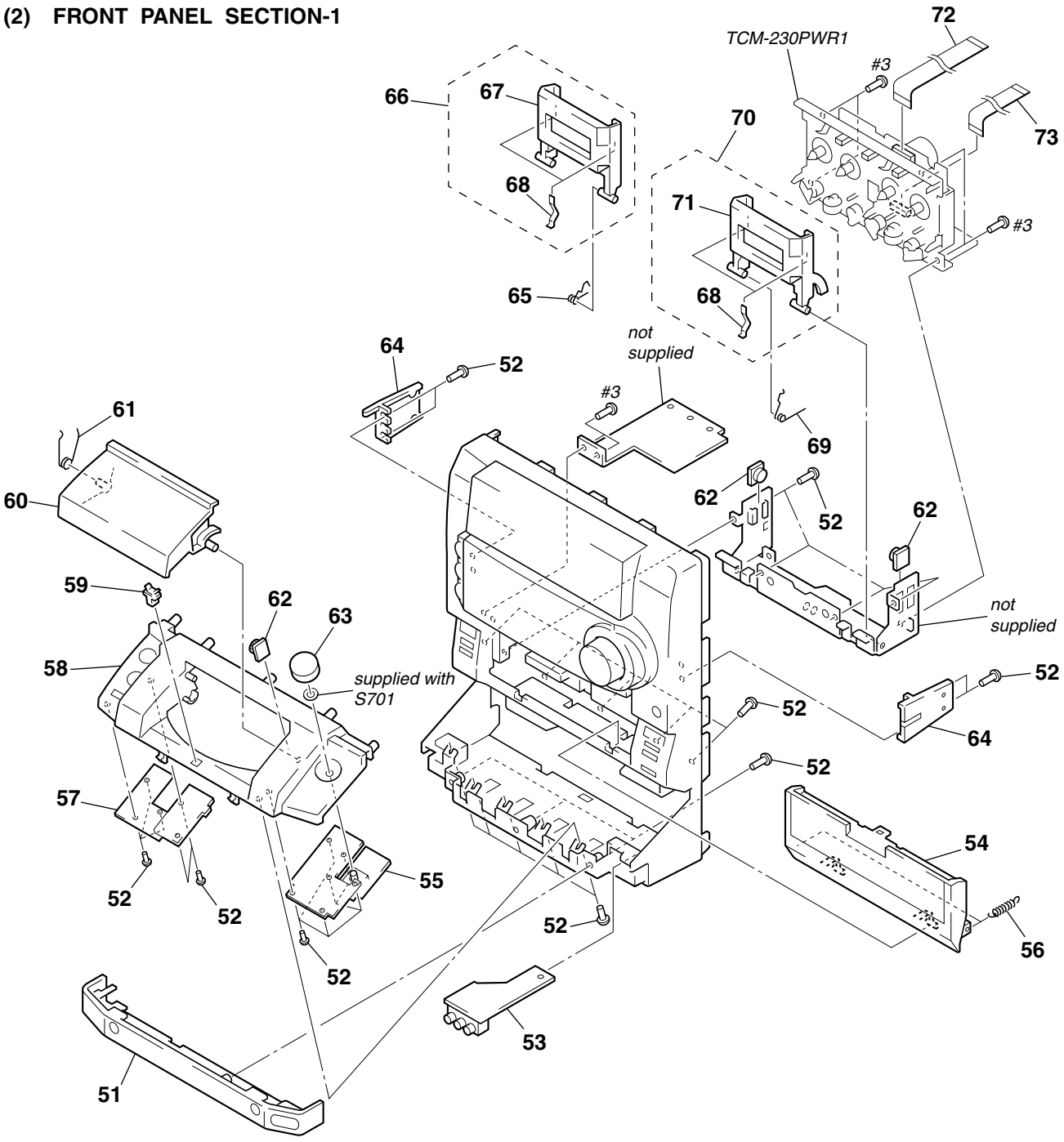
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1) CASE, BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-214-777-51	UPPER CASE	
2	3-363-099-01	SCREW(CASE 3 TP2)	
3	1-773-009-11	WIRE(FLAT TYPE) (15 CORE	
4	1-693-484-11	TUNER(FM/AM) (LX10AV:E)	
4	1-693-486-11	TUNER(FM/AM) (LX90AV)	
4	1-693-488-11	TUNER(FM/AM) (LX10AV:EA,MX,AR,MY,SP,AUS)	
4	1-693-490-11	TUNER(FM/AM) (LX9AV)	
5	4-956-370-12	BAND,PLUG FIXED (LX9AV:UK/LX10AV:AUS)	
6	1-535-706-21	PLUG,JUMPER (LX9AV/LX10AV:MX,LX90AV)	
7	4-225-530-01	PANEL, BACK (LX90AV)	
7	4-225-530-11	PANEL, BACK (LX9AV)	
7	4-225-530-21	PANEL, BACK (LX10AV:E,AR)	
7	4-225-530-31	PANEL, BACK (LX10AV:MY,SP)	
7	4-225-530-51	PANEL, BACK (LX10AV:AUS)	
7	4-225-530-61	PANEL, BACK (LX10AV:EA)	
7	4-225-530-41	PANEL, BACK (LX10AV:MX)	
M901	1-763-072-11	FAN, D.C.(LX10AV)	

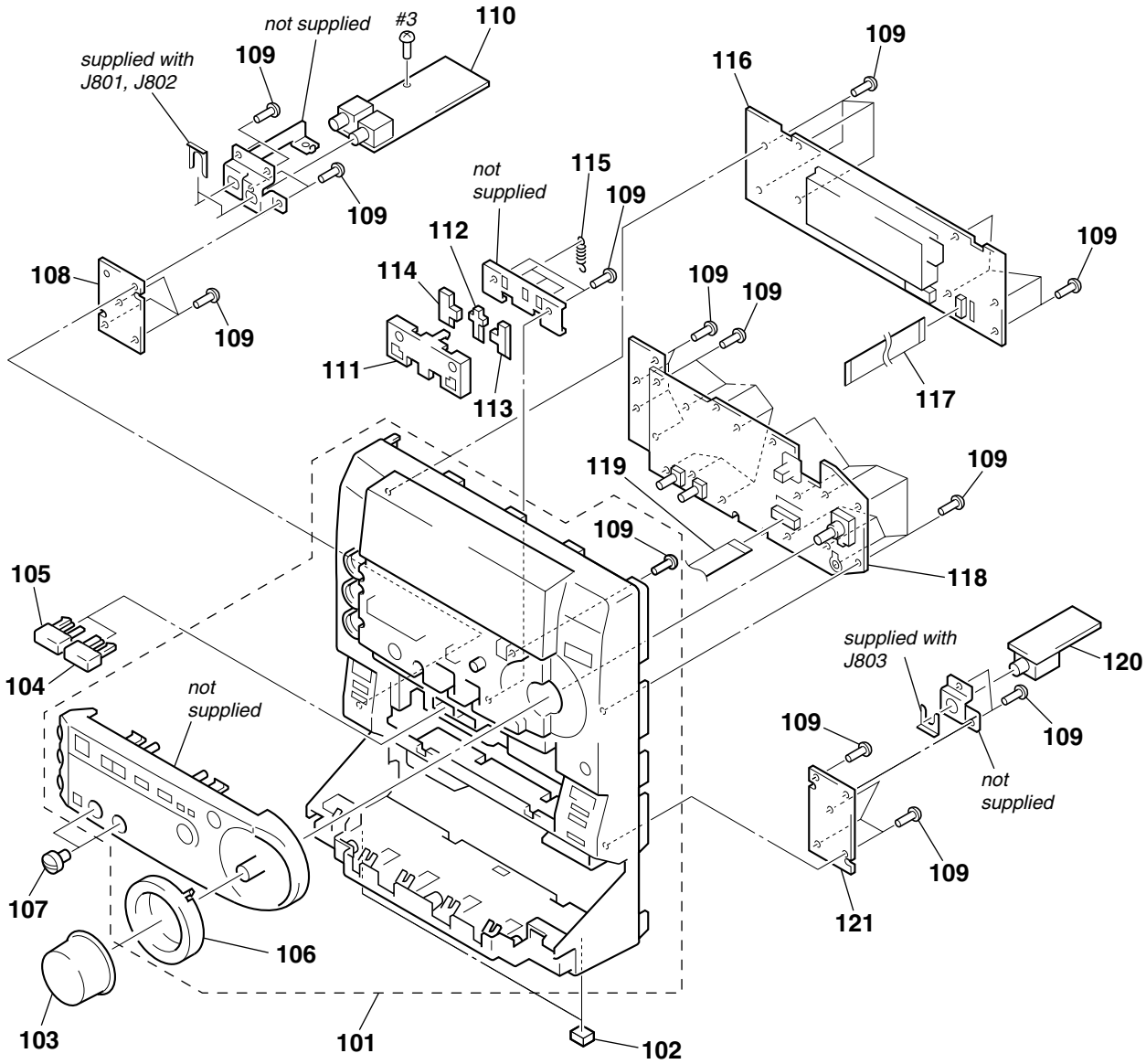
(2) FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remark
51	4-225-516-61	PLATE, ORNAMENTAL (LX10AV:E,MX,AR,MY,SP)	
51	4-225-516-71	PLATE, ORNAMENTAL (LX10AV:EA,AUS)	
51	4-225-516-81	PLATE, ORNAMENTAL (LX9AV)	
51	4-225-516-51	PLATE, ORNAMENTAL (LX90AV)	
52	4-951-620-01	SCREW (2.6X8), +BVTP	
53	1-676-276-11	FRONT INPUT BOARD	
54	X-4952-504-1	LID(TC) ASSY	
55	A-4428-176-A	CD-R BOARD, COMPLETE	
56	4-225-521-01	SPRING (TC-LID)	
57	A-4428-176-A	CD-L BOARD, COMPLETE	
58	X-4952-462-1	PANEL (CD) ASSY, SUB	
59	4-040-472-01	LATCH, D.C.	
60	X-4952-466-1	LID(CD) ASSY	

Ref. No.	Part No.	Description	Remark
61	4-225-524-01	SPRING (CD)	
62	4-224-104-21	DAMPER	
63	4-225-503-01	KNOB(CD)	
64	4-225-517-01	HOLDER (CASE)	
65	4-225-522-01	SPRING (DECK-A)	
66	X-4952-464-1	HOLDER (DECK-A) ASSY	
67	4-225-509-01	HOLDER (DECK-A)	
68	4-959-229-11	DETENT, CASSETTE	
69	4-225-523-01	SPRING (DECK-B)	
70	X-4952-465-1	HOLDER (DECK-B) ASSY	
71	4-225-510-01	HOLDER (DECK-B)	
72	1-773-056-11	WIRE(FLAT TYPE) (17 CORE)	
73	1-773-032-11	WIRE(FLAT TYPE) (15 CORE)	

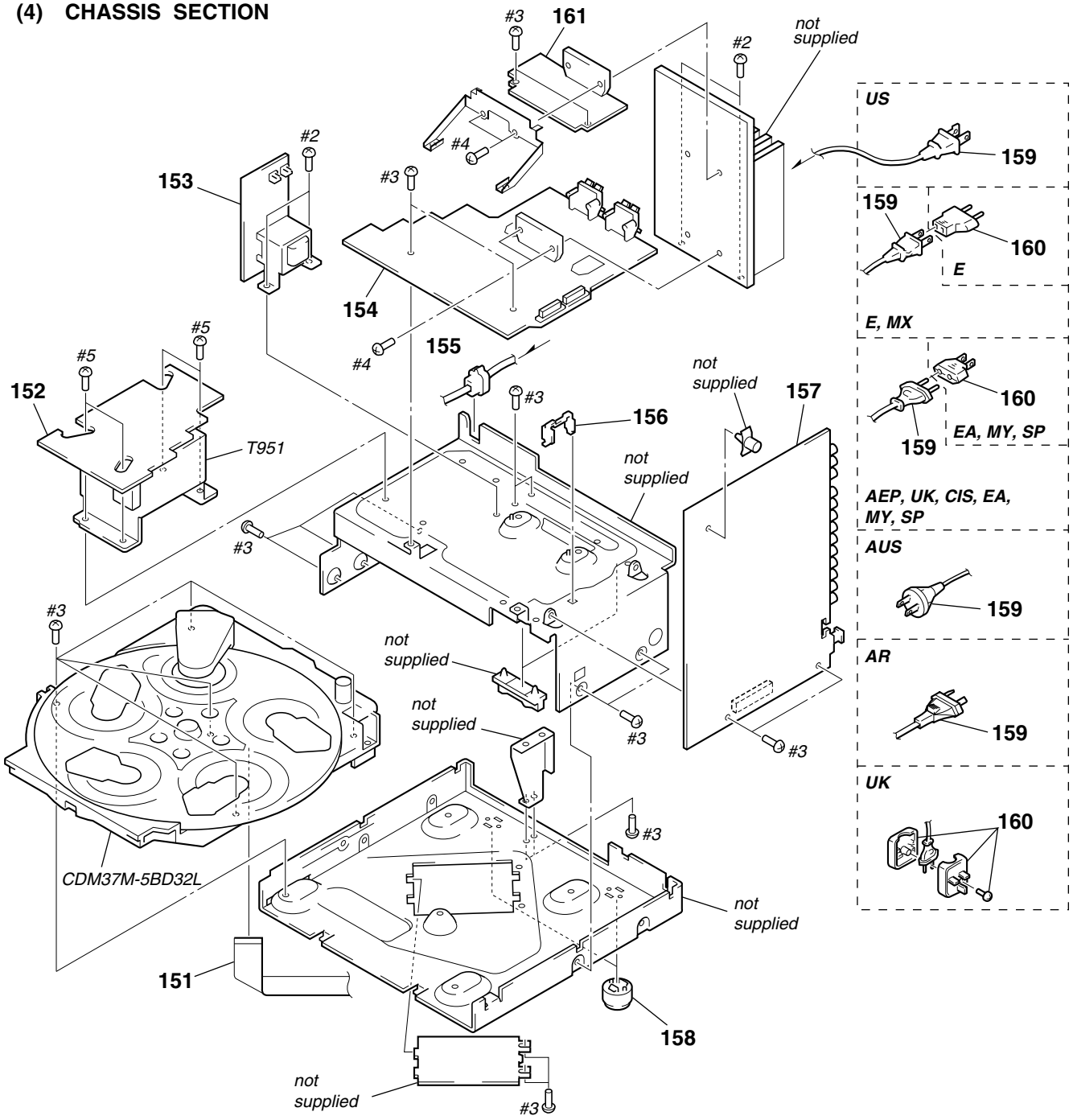
(3) FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remark
101	X-4952-443-1	PANEL ASSY, FRONT (LX90AV)	
101	X-4952-444-1	PANEL ASSY, FRONT	
		(LX10AV:E,MX,AR,MY,SP)	
101	X-4952-445-1	PANEL ASSY, FRONT (LX9AV)	
101	X-4952-446-1	PANEL ASSY, FRONT (LX10AV:EA,AUS)	
102	4-948-236-21	CUSHION (107)	
103	4-225-501-01	KNOB (VOL)	
104	4-226-888-01	LEVER (EJECT-B)	
105	4-226-887-01	LEVER (EJECT-A)	
106	4-225-500-01	RING (VOL)	
107	4-225-502-01	KNOB (MIC)	
		(LX10AV:E,MX,AR,MY,SP,LX90AV)	
107	4-225-502-11	KNOB (MIC) (LX9AV/LX10AV:EA,AUS)	
108	1-676-274-11	TC-A BOARD	
109	4-951-620-01	SCREW (2.6X8), +BVTP	

Ref. No.	Part No.	Description	Remark
110	A-4428-180-A	MIC BOARD, COMPLETE	
111	4-226-883-01	COVER (EJECT)	
112	4-226-882-01	LEVER (EJECT-C)	
113	4-226-881-01	LEVER (EJECT-B)	
114	4-226-880-01	LEVER (EJECT-A)	
115	4-226-889-01	SPRING (LEVER)	
116	A-4428-215-A	PANEL FL BOARD, COMPLETE	
117	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)	
118	A-4428-130-A	PANEL VR BOARD, COMPLETE	
		(LXLX10AV,LXLX90AV)	
118	A-4428-142-A	PANEL VR BOARD, COMPLETE (LX9AV)	
119	1-773-150-11	WIRE (FLAT TYPE) (21 CORE)	
120	1-676-281-11	HEADPHONE BOARD	
121	1-676-275-11	TC-B BOARD	

(4) CHASSIS SECTION

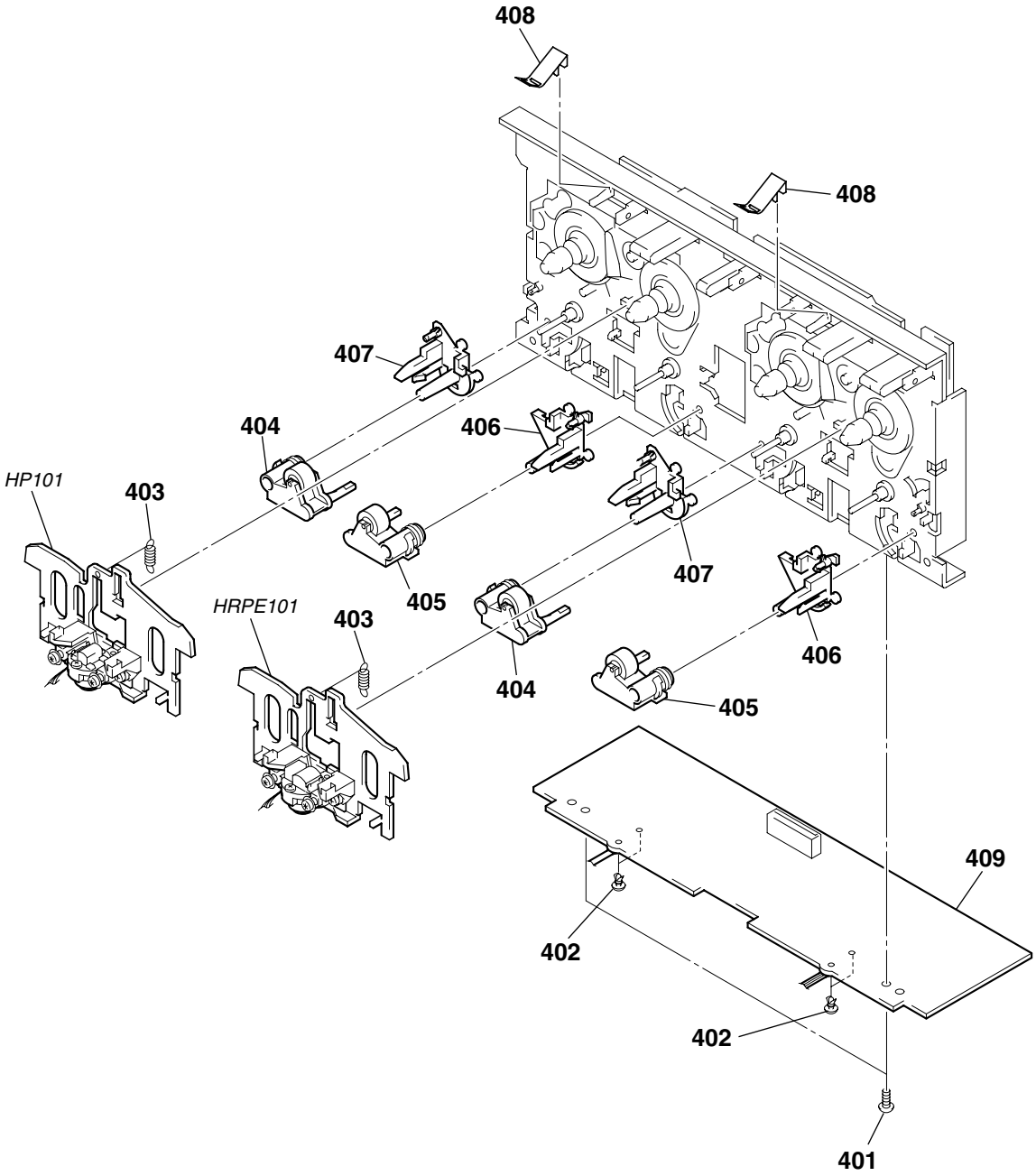


Ref. No.	Part No.	Description	Remark
151	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)	
152	1-676-267-11	TRANS BOARD	
153	1-676-268-11	SUB TRANS BOARD (LX9AV,LXLX90AV)	
154	A-4428-148-A	PA BOARD, COMPLETE (LX9AV)	
154	A-4428-151-A	PA BOARD, COMPLETE (LXLX10AV:E,MX,AR)	
154	A-4428-938-A	PA BOARD, COMPLETE (LXLX10AV:EA,MY,SP,AUS)	
154	A-4428-140-A	PA BOARD, COMPLETE (LXLX90AV)	
155	3-703-244-00	BUSHING (FBS001), CORD (LX9AV/LX10AV:EA,AR,MY,SP,AUS,LX90AV)	
155	4-966-266-01	BUSHING (S) (FBS002), CORD (LX10AV:E,MX)	
* 156	4-988-533-01	HOLDER, PWB	
157	A-4428-133-A	MAIN BOARD, COMPLETE (LXLX90AV)	
157	A-4428-147-A	MAIN BOARD, COMPLETE (LX9AV)	
157	A-4428-150-A	MAIN BOARD, COMPLETE (LXLX10AV:E,AR)	
157	A-4428-937-A	MAIN BOARD, COMPLETE (LXLX10AV:MX)	

Ref. No.	Part No.	Description	Remark
157	A-4428-940-A	MAIN BOARD, COMPLETE (LXLX10AV:AUS)	
157	A-4428-955-A	MAIN BOARD, COMPLETE (LXLX10AV:EA,MY,SP)	
158	X-4941-228-1	FOOT (F22125H-M)	
⚠159	1-777-071-51	CORD, POWER (AEP,UK,CIS,MY,EA)	
⚠159	1-783-820-11	CORD, POWER (US)	
⚠159	1-783-941-11	CORD, POWER (AR)	
⚠159	1-696-847-11	CORD, POWER (AUS)	
⚠159	1-791-901-11	CORD, POWER (E,MX)	
⚠160	1-569-007-11	ADAPTOR, CONVERSION 2P (E)	
⚠160	1-569-008-21	ADAPTOR, CONVERSION 2P (EA,MY,SP)	
⚠160	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	
161	A-4428-132-A	SURROUND AMP BOARD, COMPLETE	
⚠T951	1-435-247-11	TRANSFORMER, POWER (LX9AV)	
⚠T951	1-435-248-11	TRANSFORMER, POWER (LX90AV)	
⚠T951	1-435-249-11	TRANSFORMER, POWER (LX10AV)	

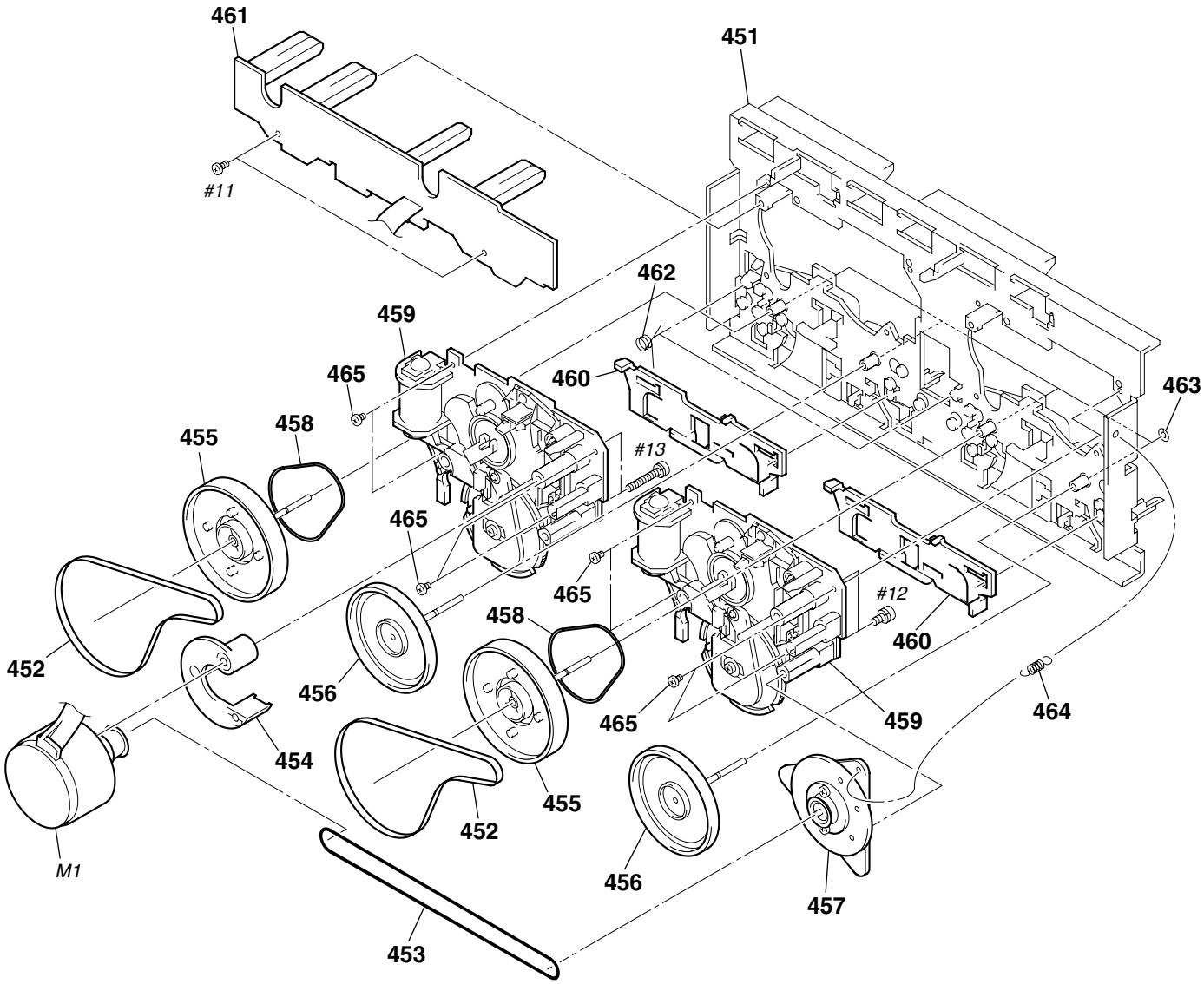
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(5) TAPE MECHANISM DECK SECTION-1 (TCM-230PWR1)



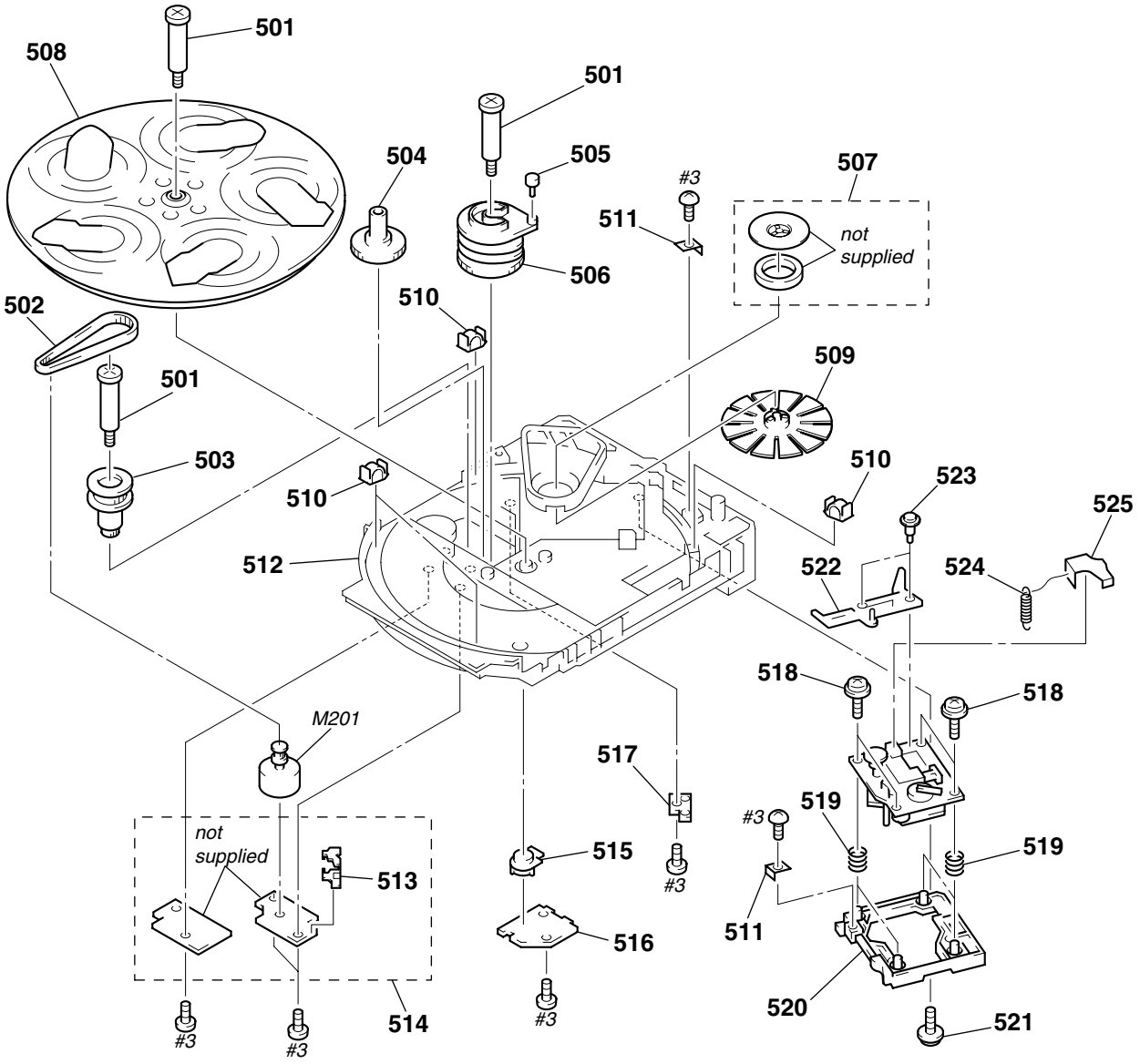
Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW(+PTT 2.6X6),GROUND POINT	
402	3-911-116-42	RIVET, PUSH	
403	3-016-574-01	SPRING (HEAD), TENSION	
404	X-3374-156-4	PINCH LEVER (REV) ASSY	
405	X-3374-155-4	PINCH LEVER (FWD) ASSY	
406	3-017-365-01	BASE (PINCH LEVER FWD)	
407	3-017-366-01	BASE (PINCH LEVER REV)	
408	3-026-892-01	SPRING (CASSETTE), LEAF	
409	A-2007-799-A	AUDIO BOARD, COMPLETE	
HP101	A-2056-683-B	DECK (A) ASSY, HEAD	
HRPE101	A-2056-684-B	DECK (B) ASSY, HEAD	

(6) TAPE MECHANISM DECK SECTION-2 (TCM-230PWR1)



Ref. No.	Part No.	Description	Remark
451	X-3374-214-1	CHASSIS ASSY, MAIN	
452	3-016-570-01	BELT (CAPSTAN)	
453	3-016-569-01	BELT (TENSION)	
* 454	3-016-568-01	BRACKET (MOTOR)	
455	X-3374-075-5	FLYWHEEL (FWD) ASSY	
456	X-3374-076-1	FLYWHEEL (REV) ASSY	
457	X-3374-157-1	PULLEY ASSY, TENSION	
458	3-024-405-01	BELT (FR2)	
459	A-2004-630-A	MECHANICAL BLOCK ASSY	
460	3-016-566-01	SLIDER, REVERSE	
461	A-2007-800-A	LEAF SW BOARD, COMPLETE	
462	3-016-575-01	SPRING, TORSION	
463	3-019-208-01	WASHER, STOPPER	
464	3-027-453-01	SPRING (GROUND), TENSION	
465	3-030-823-01	SCREW (+BVTT) (2X3.5)	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	

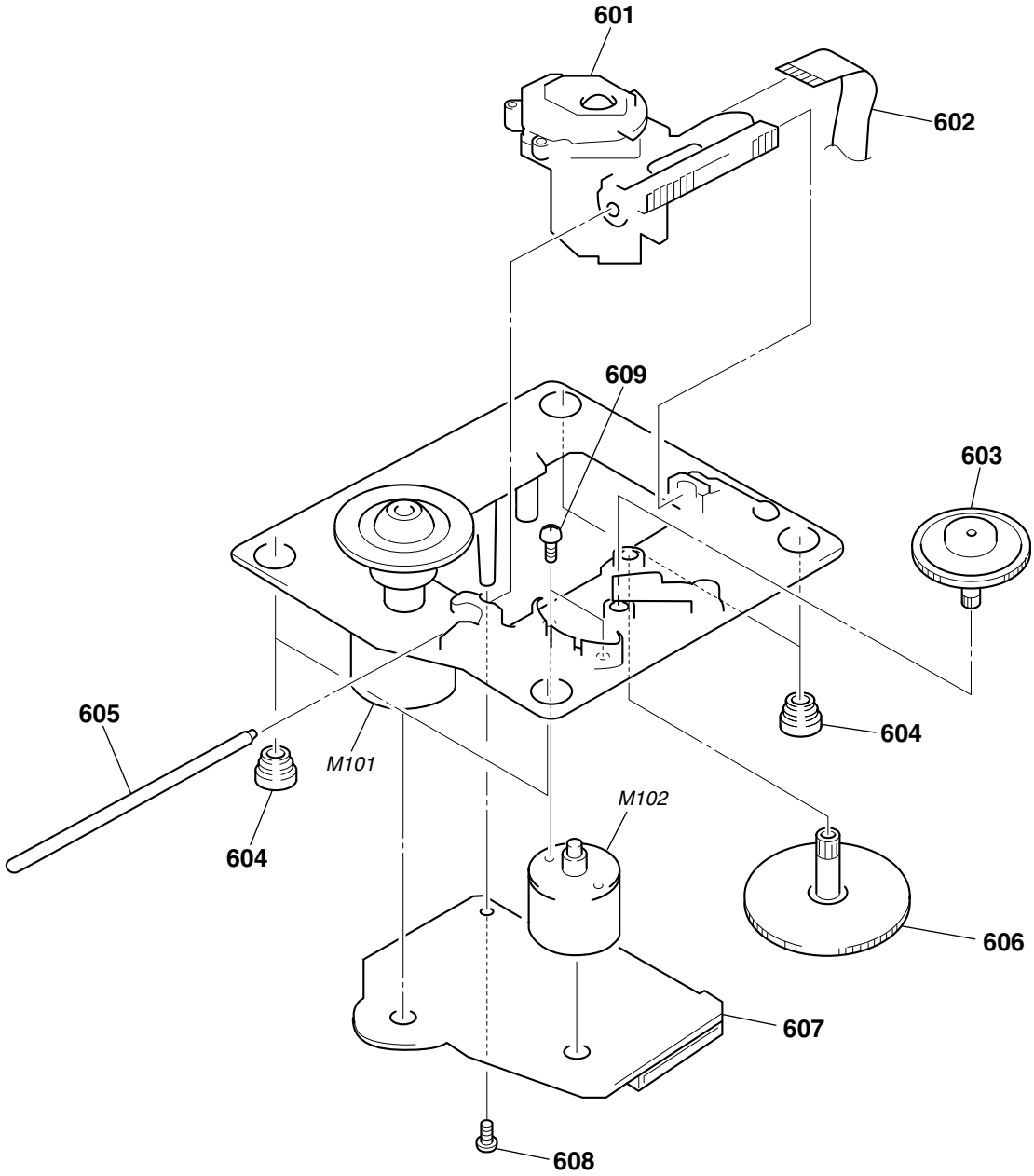
(7) CD MECHANISM DECK SECTION (CDM37M-5BD32L)



Ref. No.	Part No.	Description	Remark
501	4-987-976-01	SCREW, STEP	
502	4-944-490-01	BELT (TIMING)	
503	A-4660-978-A	GEAR (PULLEY) ASSY	
504	4-978-421-01	GEAR (MID)	
505	4-978-425-01	ROLLER (CAM)	
506	4-978-420-01	CAM (HOLDER)	
507	1-452-925-21	MAGNET ASSY	
508	4-978-417-01	TABLE, DISC	
509	4-993-142-03	PULLEY (L), PRESS	
510	X-4947-960-1	ROLLER ASSY	
* 511	4-978-583-01	BRACKET (BU)	
512	4-978-418-01	CHASSIS	
* 513	4-980-385-01	HOLDER (SW)	

Ref. No.	Part No.	Description	Remark
* 514	A-4673-765-A	CD MOTOR BOARD, COMPLETE	
515	4-978-426-01	INDICATOR (NO.)	
* 516	1-659-059-13	LED BOARD	
* 517	1-659-058-13	TABLE SENSOR BOARD	
518	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING\	
519	4-958-593-01	SPRING (BU), COMPRESSION	
* 520	4-978-419-01	HOLDER (BU-5)	
521	4-998-716-01	SCREW, BU FITTING	
522	4-989-493-01	SLIDER (37)	
523	4-989-494-01	SCREW (SLIDER), STEP	
524	4-989-819-21	SPRING, TENSION	
525	4-989-491-01	COVER, LENS	
M201	A-4660-977-A	MOTOR ASSY (TABLE)	

(8) BASE UNIT SECTION (BU-5BD32L)



Ref. No.	Part No.	Description	Remark
⚠601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP	
602	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
603	4-917-567-21	GEAR (M)	
604	4-951-940-01	INSULATOR (BU)	
605	4-917-565-01	SHAFT, SLED	
606	4-917-564-01	GEAR (P), FLATNESS	

Ref. No.	Part No.	Description	Remark
607	A-4724-486-A	BD BOARD, COMPLETE	
608	4-951-620-01	SCREW (2.6X8), +BVTP	
609	3-713-786-51	SCREW +P 2X3	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

AUDIO

SECTION 9
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  AR : Argentine model MX : Mexican model
  AUS : Australian model MY : Malaysia model
  EA : Saudi Arabia model SP : Singapore model
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-2007-799-A	AUDIO BOARD, COMPLETE **********			
		< CAPACITOR >			
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-126-968-11	ELECT	100uF	20%	6.3V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-130-483-00	MYLAR	0.01uF	5%	50V
C305	1-107-715-11	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-162-282-31	CERAMIC	100PF	10%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-126-233-11	ELECT	22uF	20%	50V
C331	1-137-427-11	MYLAR	120PF	5%	50V
C332	1-162-288-31	CERAMIC	330PF	10%	50V
C333	1-162-209-31	CERAMIC	27PF	5%	50V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-126-968-11	ELECT	100uF	20%	6.3V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-483-00	MYLAR	0.01uF	5%	50V
C405	1-107-715-11	ELECT	22uF	20%	16V
C411	1-162-289-31	CERAMIC	390PF	10%	50V
C413	1-162-282-31	CERAMIC	100PF	10%	50V
C414	1-130-487-00	MYLAR	0.022uF	5%	50V
C415	1-126-233-11	ELECT	22uF	20%	50V
C431	1-137-427-11	MYLAR	120PF	5%	50V
C432	1-162-288-31	CERAMIC	330PF	10%	50V
C433	1-162-209-31	CERAMIC	27PF	5%	50V
C601	1-104-396-11	ELECT	10uF	20%	16V
C602	1-104-396-11	ELECT	10uF	20%	16V
C611	1-104-396-11	ELECT	10uF	20%	16V
C612	1-104-396-11	ELECT	10uF	20%	16V
C621	1-137-150-11	FILM	0.01uF	5%	100V
C622	1-126-961-11	ELECT	2.2uF	20%	50V
C623	1-136-155-00	FILM	0.015uF	5%	50V
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V
C627	1-124-903-11	ELECT	1uF	20%	50V
C628	1-136-153-00	FILM	0.01uF	5%	50V
C642	1-104-664-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN601	1-695-338-11	PIN, CONNECTOR (PC BOARD) 15P			
		< IC >			
IC601	8-759-111-44	IC uPC4570C-1			
IC602	8-759-143-54	IC uPC1330HA			
IC611	8-759-111-44	IC uPC4570C-1			
		< COIL >			
L331	1-410-780-11	INDUCTOR	27uH		
L431	1-410-780-11	INDUCTOR	27uH		
L601	1-414-193-41	INDUCTOR	220uH		
L602	1-414-193-41	INDUCTOR	220uH		
		< TRANSISTOR >			
Q621	8-729-142-46	TRANSISTOR	2SC2001TP-LK		
Q622	8-729-142-46	TRANSISTOR	2SC2001TP-LK		
Q623	8-729-801-93	TRANSISTOR	2SD1387-34-TP		
		< RESISTOR >			
R301	1-247-881-00	CARBON	120K	5%	1/4W
R302	1-249-409-11	CARBON	220	5%	1/4W
R303	1-247-863-11	CARBON	22K	5%	1/4W
R304	1-247-889-00	CARBON	270K	5%	1/4W
R305	1-247-858-11	CARBON	13K	5%	1/4W
R311	1-247-881-00	CARBON	120K	5%	1/4W
R312	1-247-807-31	CARBON	100	5%	1/4W
R314	1-247-882-11	CARBON	130K	5%	1/4W
R315	1-247-850-11	CARBON	6.2K	5%	1/4W
R331	1-249-430-11	CARBON	12K	5%	1/4W
R401	1-247-881-00	CARBON	120K	5%	1/4W
R402	1-249-409-11	CARBON	220	5%	1/4W
R403	1-247-863-11	CARBON	22K	5%	1/4W
R404	1-247-889-00	CARBON	270K	5%	1/4W
R405	1-247-858-11	CARBON	13K	5%	1/4W
R411	1-247-881-00	CARBON	120K	5%	1/4W
R412	1-247-807-31	CARBON	100	5%	1/4W
R414	1-247-882-11	CARBON	130K	5%	1/4W
R415	1-247-850-11	CARBON	6.2K	5%	1/4W
R431	1-249-430-11	CARBON	12K	5%	1/4W
R601	1-249-409-11	CARBON	220	5%	1/4W

Ref. No.	Part No.	Description			Remark
R602	1-249-409-11	CARBON	220	5%	1/4W
R608	1-249-409-11	CARBON	220	5%	1/4W
R609	1-247-863-11	CARBON	22K	5%	1/4W
R611	1-249-409-11	CARBON	220	5%	1/4W
R612	1-249-409-11	CARBON	220	5%	1/4W
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV341	1-241-768-11	RES, ADJ, CARBON 220K			
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV441	1-241-768-11	RES, ADJ, CARBON 220K			
		< TRANSFORMER >			
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			
**********					
	A-4724-486-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C104	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C110	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C114	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C119	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C121	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C122	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C123	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C125	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C126	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C127	1-128-065-11	ELECT CHIP	68uF	20%	10V
C128	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C129	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C130	1-164-346-11	CERAMIC CHIP	1uF		16V
C131	1-124-779-00	ELECT CHIP	10uF	20%	16V
C133	1-164-346-11	CERAMIC CHIP	1uF		16V
C140	1-164-346-11	CERAMIC CHIP	1uF		16V
C141	1-164-346-11	CERAMIC CHIP	1uF		16V

Ref. No.	Part No.	Description			Remark
C143	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C151	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C153	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C154	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C156	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C157	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C161	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C162	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C163	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C165	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C167	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C168	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C171	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C172	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C181	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C182	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
		< CONNECTOR >			
CN101	1-778-874-11	CONNECTOR, FFC (LIF (NON-ZIF)) 19P			
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P			
		< FERRITE BEAD >			
FB101	1-500-445-21	FERRITE	0UH		
FB103	1-500-445-21	FERRITE	0UH		
		< IC >			
IC101	8-752-386-85	IC CXD2587Q			
IC102	8-759-549-28	IC BA5974FP-E2			
IC103	8-752-085-51	IC CXA2568M-T6			
		< TRANSISTOR >			
Q101	8-729-010-08	TRANSISTOR	MSB710-RT1		
		< RESISTOR >			
R101	1-216-077-00	RES, CHIP	15K	5%	1/10W
R102	1-216-097-00	RES, CHIP	100K	5%	1/10W
R103	1-216-077-00	RES, CHIP	15K	5%	1/10W
R104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W
R106	1-216-049-11	RES, CHIP	1K	5%	1/10W
R107	1-216-073-00	METAL CHIP	10K	5%	1/10W
R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R109	1-216-121-00	RES, CHIP	1M	5%	1/10W
R110	1-216-025-00	RES, CHIP	100	5%	1/10W
R111	1-216-121-00	RES, CHIP	1M	5%	1/10W
R113	1-216-121-00	RES, CHIP	1M	5%	1/10W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R116	1-216-001-00	METAL CHIP	10	5%	1/10W
R117	1-216-049-11	RES, CHIP	1K	5%	1/10W
R119	1-216-041-00	METAL CHIP	470	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R124	1-216-097-00	RES, CHIP	100K	5%	1/10W
R131	1-216-033-00	METAL CHIP	220	5%	1/10W
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W
R147	1-216-069-00	METAL CHIP	6.8K	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R148	1-216-001-00	METAL CHIP	10	5%	1/10W
R149	1-216-001-00	METAL CHIP	10	5%	1/10W
R158	1-216-111-00	METAL CHIP	390K	5%	1/10W
R159	1-216-101-00	METAL CHIP	150K	5%	1/10W
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W
R171	1-216-078-00	RES, CHIP	16K	5%	1/10W
R172	1-216-073-00	METAL CHIP	10K	5%	1/10W
R173	1-216-077-00	RES, CHIP	15K	5%	1/10W
R181	1-216-078-00	RES, CHIP	16K	5%	1/10W
R182	1-216-073-00	METAL CHIP	10K	5%	1/10W
R183	1-216-077-00	RES, CHIP	15K	5%	1/10W
		< NETWORK RESISTOR >			
RN101	1-233-576-11	RES, CHIP NETWORK 100			
RN102	1-233-576-11	RES, CHIP NETWORK 100			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			
		< VIBRATOR >			
X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)			
**********					
*	A-4673-765-A	CD MOTOR BOARD, COMPLETE			
		**********			
*	4-980-385-01	HOLDER (SW)			
		< CAPACITOR >			
C201	1-126-964-11	ELECT	10uF	20%	50V
C202	1-164-159-21	CERAMIC	0.1uF		50V
C203	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN201	1-568-947-11	PIN, CONNECTOR 9P			
		< IC >			
IC201	8-759-365-94	IC TA8409S			
		< COIL >			
L201	1-408-117-00	INDUCTOR	10uH		
		< RESISTOR >			
R205	1-249-427-11	CARBON	6.8K	5%	1/4W
R206	1-249-425-11	CARBON	4.7K	5%	1/4W
		< SWITCH >			
S201	1-762-587-11	SWITCH, PUSH (1 KEY) (UP)			
**********					

Ref. No.	Part No.	Description			Remark
	A-4428-176-A	CD-L BOARD			
		**********			
		CD-L2 BOARD			
		< CAPACITOR >			
C691	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN812	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE) 6P			
		< DIODE >			
D641	8-719-058-04	LED SEL5223S-TP15 (NON-STOP)			
		< RESISTOR >			
R729	1-249-420-11	CARBON	1.8K	5%	1/4W
R730	1-249-422-11	CARBON	2.7K	5%	1/4W
R731	1-247-843-11	CARBON	3.3K	5%	1/4W
R732	1-249-425-11	CARBON	4.7K	5%	1/4W
R733	1-249-427-11	CARBON	6.8K	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W
R735	1-249-431-11	CARBON	15K	5%	1/4W
R736	1-249-434-11	CARBON	27K	5%	1/4W
R745	1-249-408-11	CARBON	180	5%	1/4W
		< SWITCH >			
S651	1-762-875-21	SWITCH, KEYBOARD (LOOP)			
S652	1-762-875-21	SWITCH, KEYBOARD (NON-STOP)			
S653	1-762-875-21	SWITCH, KEYBOARD (EDIT)			
S654	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
S655	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S656	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S657	1-762-875-21	SWITCH, KEYBOARD (DISC 4)			
S658	1-762-875-21	SWITCH, KEYBOARD (DISC 5)			
S659	1-762-875-21	SWITCH, KEYBOARD (FLASH)			
S691	1-762-587-11	SWITCH, PUSH (1 KEY) (LID (CD) OPEN/CLOSE)			
**********					
	A-4428-177-A	CD-R BOARD			
		**********			
		CD-R2 BOARD			
		< CAPACITOR >			
C613	1-162-306-11	CERAMIC	0.01uF	30%	16V
C614	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN703	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE) 7P			
		< DIODE >			
D700	8-719-056-13	LED SML79423C-TP15 (▷ ❚❚)			
		< RESISTOR >			
R751	1-247-843-11	CARBON	3.3K	5%	1/4W
R752	1-249-425-11	CARBON	4.7K	5%	1/4W
R753	1-249-427-11	CARBON	6.8K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R754	1-249-429-11	CARBON	10K	5%	1/4W
R755	1-249-431-11	CARBON	15K	5%	1/4W
R756	1-249-434-11	CARBON	27K	5%	1/4W
R757	1-249-438-11	CARBON	56K	5%	1/4W
R758	1-249-403-11	CARBON	68	5%	1/4W
R759	1-249-403-11	CARBON	68	5%	1/4W
		< SWITCH >			
S676	1-762-875-21	SWITCH, KEYBOARD (►►)			
S677	1-762-875-21	SWITCH, KEYBOARD (▷ ❚❚)			
S678	1-762-875-21	SWITCH, KEYBOARD (◄◄)			
S679	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP)			
S680	1-762-875-21	SWITCH, KEYBOARD (■)			
S681	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE)			
S682	1-762-875-21	SWITCH, KEYBOARD (REPEAT)			
S701	1-473-534-11	ENCODER, ROTARY (I◄◄ AMS ►►I)			
**********					
	1-676-276-11	FRONT INPUT BOARD **********			
		< CAPACITOR >			
C801	1-162-294-31	CERAMIC	0.001uF	10%	50V
C802	1-162-294-31	CERAMIC	0.001uF	10%	50V
C811	1-162-282-31	CERAMIC	100PF	10%	50V
C812	1-164-159-21	CERAMIC	0.1uF		50V
C813	1-126-960-11	ELECT	1uF	20%	50V
		< GROUND PLATE >			
EPT801	4-870-539-41	PLATE, GROUND			
		< FILTER >			
FL803	1-424-228-11	FILTER, NOISE			
		< JACK >			
J804	1-764-592-41	JACK 3P (VIDEO 2 INPUT)			
		< RESISTOR >			
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-437-11	CARBON	47K	5%	1/4W
R803	1-249-417-11	CARBON	1K	5%	1/4W
R804	1-249-437-11	CARBON	47K	5%	1/4W
R805	1-247-804-11	CARBON	75	5%	1/4W
**********					
	1-676-281-11	HEADPHONE BOARD **********			
		< CAPACITOR >			
C891	1-162-294-31	CERAMIC	0.001uF	10%	50V
C892	1-162-294-31	CERAMIC	0.001uF	10%	50V
C893	1-164-159-21	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN802	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P			
		< JACK >			
J803	1-770-226-41	JACK (LARGE TYPE) (PHONES)			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R810	1-247-807-31	CARBON	100	5%	1/4W
**********					
	A-2007-800-A	LEAF SW BOARD, COMPLETE **********			
		< CAPACITOR >			
C1001	1-107-716-11	ELECT	33uF	20%	10V
		< CONNECTOR >			
CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P			
		< DIODE >			
D1001	8-719-991-33	DIODE 1SS133T-77			
D1002	8-719-991-33	DIODE 1SS133T-77			
		< CABLE HOLDER >			
* DM1001	1-784-581-11	HOLDER, CABLE (2.5mm PITCH) 4P			
		< IC >			
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264			
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264			
		< TRANSISTOR >			
Q1001	8-729-029-56	TRANSISTOR	DTA144ESA-TP		
		< RESISTOR >			
R907	1-249-441-11	CARBON	100K	5%	1/4W
R1001	1-249-409-11	CARBON	220	5%	1/4W
R1002	1-249-409-11	CARBON	220	5%	1/4W
R1003	1-249-414-11	CARBON	560	5%	1/4W
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-91	CARBON	300	5%	1/4W
R1006	1-247-864-11	CARBON	24K	5%	1/4W
R1007	1-247-856-00	CARBON	11K	5%	1/4W
R1008	1-249-417-11	CARBON	1K	5%	1/4W
		< VARIABLE RESISTOR >			
RV1001	1-241-785-11	RES, ADJ, CARBON 10K			
RV1002	1-241-785-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S1001	1-570-953-11	SWITCH, PUSH (1 KEY) (DISC APLAY)			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (DISC B PLAY)			
S1003	1-771-333-11	SWITCH, LEAF (DISC A HALF)			
S1004	1-771-205-11	SWITCH, LEAF (DISC A $\overline{120}$/70)			
S1005	1-771-205-11	SWITCH, LEAF (DISC A REC)			
S1006	1-771-333-11	SWITCH, LEAF (DISC B HALF)			
S1008	1-771-205-11	SWITCH, LEAF (DISC B $\overline{120}$/70)			
S1009	1-771-205-11	SWITCH, LEAF (DISC B REC)			
**********					

Ref. No.	Part No.	Description			Remark
*	1-659-059-13	LED BOARD			
		**********			
		< DIODE >			
D201	8-719-032-98	LED SEL5820A-TP15 (DISC No.)			
		< TRANSISTOR >			
Q201	8-729-119-78	TRANSISTOR	2SC2785TP-HFE		
		< RESISTOR >			
R201	1-247-863-11	CARBON	22K	5%	1/4W
R202	1-249-411-11	CARBON	330	5%	1/4W
R203	1-249-437-11	CARBON	47K	5%	1/4W
**********					
	A-4428-147-A	MAIN BOARD, COMPLETE (LX9AV)			
		**********			
	A-4428-133-A	MAIN BOARD, COMPLETE (LX90AV)			
		**********			
	A-4428-955-A	MAIN BOARD, COMPLETE (LX10AV:EA,MY,SP)			
		**********			
	A-4428-150-A	MAIN BOARD, COMPLETE (LX10AV:E,AR)			
		**********			
	A-4428-937-A	MAIN BOARD, COMPLETE (LX10AV:MX)			
		**********			
	A-4428-940-A	MAIN BOARD, COMPLETE (LX10AV:AUS)			
		**********			
	4-875-327-31	HEATSINK			
	7-685-646-79	SCREW+BVTP	3X8	TYPE2 N-S	
		< CAPACITOR >			
C111	1-137-195-11	MYLAR	0.56uF	5.00%	50V
C112	1-130-488-00	MYLAR	0.027uF	5%	50V
C113	1-136-167-00	MYLAR	0.15uF	5.00%	50V
C114	1-130-480-00	MYLAR	0.0056uF	5%	50V
C115	1-130-489-00	MYLAR	0.033uF	5%	50V
C116	1-130-473-00	MYLAR	0.0015uF	5%	50V
C117	1-130-483-00	MYLAR	0.01uF	5%	50V
C118	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C119	1-130-479-00	MYLAR	0.0047uF	5%	50V
C120	1-130-477-00	MYLAR	0.0033uF	5%	50V
C121	1-126-964-11	ELECT	10uF	20.00%	50V
C122	1-163-006-11	CERAMIC CHIP	560PF	10.00%	50V
C123	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C124	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C125	1-126-964-11	ELECT	10uF	20.00%	50V
C131	1-104-664-11	ELECT	47uF	20.00%	16V
C132	1-104-664-11	ELECT	47uF	20.00%	16V
C135	1-126-964-11	ELECT	10uF	20.00%	50V
C161	1-137-195-11	MYLAR	0.56uF	5.00%	50V
C162	1-130-488-00	MYLAR	0.027uF	5%	50V
C163	1-136-167-00	MYLAR	0.15uF	5.00%	50V
C164	1-130-480-00	MYLAR	0.0056uF	5%	50V
C165	1-130-489-00	MYLAR	0.033uF	5%	50V
C166	1-130-473-00	MYLAR	0.0015uF	5%	50V
C167	1-130-483-00	MYLAR	0.01uF	5%	50V
C168	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C169	1-130-479-00	MYLAR	0.0047uF	5%	50V
C170	1-130-477-00	MYLAR	0.0033uF	5%	50V
C171	1-126-964-11	ELECT	10uF	20.00%	50V
C172	1-163-006-11	CERAMIC CHIP	560PF	10.00%	50V
C173	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C174	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C175	1-126-964-11	ELECT	10uF	20.00%	50V
C176	1-130-493-00	MYLAR	0.068uF	5%	50V
C177	1-130-483-00	MYLAR	0.01uF	5%	50V
C181	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C182	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C183	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C191	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C192	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C193	1-126-964-11	ELECT	10uF	20.00%	50V
C201	1-126-964-11	ELECT	10uF	20.00%	50V
C202	1-126-964-11	ELECT	10uF	20.00%	50V
C203	1-126-959-11	ELECT	0.47uF	20.00%	50V
C204	1-126-959-11	ELECT	0.47uF	20.00%	50V
C207	1-126-959-11	ELECT	0.47uF	20.00%	50V
C208	1-126-959-11	ELECT	0.47uF	20.00%	50V
C209	1-126-959-11	ELECT	0.47uF	20.00%	50V
C210	1-126-959-11	ELECT	0.47uF	20.00%	50V
C211	1-126-959-11	ELECT	0.47uF	20.00%	50V
C212	1-126-959-11	ELECT	0.47uF	20.00%	50V
C213	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C214	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C215	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C216	1-126-960-11	ELECT	1uF	20.00%	50V
C217	1-130-479-00	MYLAR	0.0047uF	5%	50V
C218	1-130-471-00	MYLAR	0.001uF	5%	50V
C219	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C220	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C221	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C222	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C223	1-130-479-00	MYLAR	0.0047uF	5%	50V
C224	1-130-471-00	MYLAR	0.001uF	5%	50V
C225	1-126-960-11	ELECT	1uF	20.00%	50V
C226	1-130-480-00	MYLAR	0.0056uF	5%	50V
C227	1-136-161-00	MYLAR	0.047uF	5.00%	50V
C228	1-136-175-00	MYLAR	0.68uF	5.00%	50V
C229	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C230	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C231	1-126-963-11	ELECT	4.7uF	20.00%	50V
C232	1-126-963-11	ELECT	4.7uF	20.00%	50V
C233	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C234	1-136-169-00	MYLAR	0.22uF	5.00%	50V
C235	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C236	1-136-161-00	MYLAR	0.047uF	5.00%	50V
C237	1-136-161-00	MYLAR	0.047uF	5.00%	50V
C238	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C239	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C240	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C241	1-136-157-00	MYLAR	0.022uF	5.00%	50V
C242	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C243	1-130-469-00	MYLAR	680PF	5%	50V
C244	1-136-153-00	FILM	0.01uF	5%	50V
C245	1-136-153-00	FILM	0.01uF	5%	50V
C246	1-130-469-00	MYLAR	680PF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C247	1-136-153-00	FILM	0.01uF	5%	50V
C248	1-136-153-00	FILM	0.01uF	5%	50V
C249	1-104-664-11	ELECT	47uF	20.00%	16V
C250	1-130-481-00	MYLAR	0.0068uF	5%	50V
C251	1-126-963-11	ELECT	4.7uF	20.00%	50V
C252	1-126-934-11	ELECT	220uF	20.00%	16V
C253	1-126-934-11	ELECT	220uF	20.00%	16V
C255	1-126-964-11	ELECT	10uF	20.00%	50V
C256	1-126-964-11	ELECT	10uF	20.00%	50V
C257	1-126-964-11	ELECT	10uF	20.00%	50V
C258	1-126-964-11	ELECT	10uF	20.00%	50V
C259	1-126-964-11	ELECT	10uF	20.00%	50V
C260	1-126-964-11	ELECT	10uF	20.00%	50V
C261	1-126-964-11	ELECT	10uF	20.00%	50V
C262	1-126-964-11	ELECT	10uF	20.00%	50V
C264	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C301	1-126-960-11	ELECT	1uF	20.00%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
C303	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C304	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C305	1-126-964-11	ELECT	10uF	20.00%	50V
C306	1-126-960-11	ELECT	1uF	20.00%	50V
C307	1-126-959-11	ELECT	0.47uF	20.00%	50V
C308	1-126-964-11	ELECT	10uF	20.00%	50V
C309	1-137-194-81	MYLAR	0.47uF	5.00%	50V
C310	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C311	1-126-964-11	ELECT	10uF	20.00%	50V
C312	1-126-959-11	ELECT	0.47uF	20.00%	50V
C313	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C314	1-126-964-11	ELECT	10uF	20.00%	50V
C315	1-126-963-11	ELECT	4.7uF	20.00%	50V
C316	1-104-665-11	ELECT	100uF	20.00%	10V
C317	1-104-665-11	ELECT	100uF	20.00%	10V
C320	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C333	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C334	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C351	1-126-960-11	ELECT	1uF	20.00%	50V
C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C353	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C354	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C355	1-126-964-11	ELECT	10uF	20.00%	50V
C356	1-126-960-11	ELECT	1uF	20.00%	50V
C357	1-126-959-11	ELECT	0.47uF	20.00%	50V
C358	1-126-964-11	ELECT	10uF	20.00%	50V
C359	1-137-194-81	MYLAR	0.47uF	5.00%	50V
C401	1-126-961-11	ELECT	2.2uF	20.00%	50V
C411	1-163-033-91	CERAMIC CHIP	0.022uF	50V	
C412	1-163-033-91	CERAMIC CHIP	0.022uF	50V	
C413	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C414	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C415	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C416	1-126-925-11	ELECT	470uF	20.00%	10V
C431	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C451	1-126-961-11	ELECT	2.2uF	20.00%	50V
C510	1-163-233-11	CERAMIC CHIP	18PF	5.00%	50V
C511	1-163-235-11	CERAMIC CHIP	22PF	5.00%	50V
C516	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C562	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C564	1-104-665-11	ELECT	100uF	20.00%	10V
C598	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C599	1-104-665-11	ELECT	100uF	20.00%	10V
C601	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C602	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C603	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C604	1-126-961-11	ELECT	2.2uF	20.00%	50V (LX10AV)
C604	1-126-963-11	ELECT	4.7uF	20.00%	50V (LX9AV,LX90AV)
C605	1-130-479-00	MYLAR	0.0047uF	5%	50V
C606	1-130-473-00	MYLAR	0.0015uF	5%	50V
C607	1-136-159-00	MYLAR	0.033uF	5.00%	50V (LX10AV)
C607	1-136-165-00	MYLAR	0.1uF	5.00%	50V (LX9AV,LX90AV)
C608	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C609	1-126-933-11	ELECT	100uF	20.00%	16V
C651	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C652	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C653	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V
C654	1-126-961-11	ELECT	2.2uF	20.00%	50V (LX10AV)
C654	1-126-963-11	ELECT	4.7uF	20.00%	50V (LX9AV,LX90AV)
C655	1-130-479-00	MYLAR	0.0047uF	5%	50V
C656	1-130-473-00	MYLAR	0.0015uF	5%	50V
C657	1-136-159-00	MYLAR	0.033uF	5.00%	50V (LX10AV)
C657	1-136-165-00	MYLAR	0.1uF	5.00%	50V (LX9AV,LX90AV)
C658	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C659	1-126-933-11	ELECT	100uF	20.00%	16V
C701	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C702	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C703	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C704	1-163-001-11	CERAMIC CHIP	220PF	10%	50V (LX9AV,LX10AV:MX,LX90AV)
C705	1-163-001-11	CERAMIC CHIP	220PF	10%	50V (LX9AV,LX10AV:MX,LX90AV)
C711	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C712	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C713	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C721	1-126-960-11	ELECT	1uF	20.00%	50V
C722	1-126-926-11	ELECT	1000uF	20.00%	10V
C723	1-126-960-11	ELECT	1uF	20.00%	50V
C724	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C731	1-126-964-11	ELECT	10uF	20.00%	50V
C732	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C733	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C751	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C752	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C753	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C761	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C762	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C763	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C772	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C774	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C775	1-163-038-91	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C776	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C777	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C782	1-104-665-11	ELECT	100uF	20.00%	10V
C803	1-126-964-11	ELECT	10uF	20.00%	50V
C804	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C805	1-136-165-00	MYLAR	0.1uF	5.00%	50V
C806	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C808	1-109-953-11	ELECT	2.2uF	20.00%	50V
C902	1-126-937-11	ELECT	4700uF	20.00%	16V
C903	1-126-964-11	ELECT	10uF	20.00%	50V
C904	1-126-964-11	ELECT	10uF	20.00%	50V
C905	1-126-924-11	ELECT	330uF	20.00%	10V
C911	1-126-964-11	ELECT	10uF	20.00%	50V
C912	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C913	1-104-665-11	ELECT	100uF	20.00%	10V
C914	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C932	1-126-964-11	ELECT	10uF	20.00%	50V
C933	1-126-933-11	ELECT	100uF	20.00%	16V
C934	1-126-964-11	ELECT	10uF	20.00%	50V
C935	1-126-767-11	ELECT	1000uF	20.00%	16V
C936	1-126-964-11	ELECT	10uF	20.00%	50V
C937	1-104-665-11	ELECT	100uF	20.00%	10V
C938	1-126-933-11	ELECT	100uF	20.00%	16V
C952	1-126-943-11	ELECT	2200uF	20.00%	25V
C953	1-126-964-11	ELECT	10uF	20.00%	50V
C954	1-126-964-11	ELECT	10uF	20.00%	50V
C955	1-126-924-11	ELECT	330uF	20.00%	10V
C961	1-163-038-91	CERAMIC CHIP	0.1uF		25V (LX10AV)
		< CONNECTOR >			
CN303	1-784-776-11	CONNECTOR, FFC 15P			
CN304	1-784-778-11	CONNECTOR, FFC 17P			
CN411	1-784-780-11	CONNECTOR, FFC 19P			
CN412	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P			
CN431	1-784-774-11	CONNECTOR, FFC 13P			
CN441	1-750-745-11	CONNECTOR, FFC/FPC 13P (LX10AV,LX90AV)			
CN441	1-750-747-11	CONNECTOR, FFC/FPC 15P (LX9AV)			
CN452	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P			
CN702	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CN901	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P			
CN902	1-778-982-21	CONNECTOR, BOARD TO BOARD 13P (LX9AV,LX10AV:E,MX,AR,LX90AV)			
* CN902	1-770-729-11	CONNECTOR, BOARD TO BOARD 10P (LX10AV:EA,MY,SP,AUS)			
* CN903	1-564-506-11	PLUG, CONNECTOR 3P (LX10AV)			
		< DIODE >			
D191	8-719-988-61	DIODE	1SS355TE-17		
D192	8-719-988-61	DIODE	1SS355TE-17		
D193	8-719-988-61	DIODE	1SS355TE-17		
D194	8-719-988-61	DIODE	1SS355TE-17		
D201	8-719-988-61	DIODE	1SS355TE-17		
D334	1-216-295-91	SHORT	0		
D501	8-719-988-61	DIODE	1SS355TE-17		
D534	8-719-988-61	DIODE	1SS355TE-17		
D801	8-719-988-61	DIODE	1SS355TE-17		
D802	8-719-988-61	DIODE	1SS355TE-17		

Ref. No.	Part No.	Description		Remark
D803	8-719-988-61	DIODE	1SS355TE-17	
D804	8-719-988-61	DIODE	1SS355TE-17	
D805	8-719-988-61	DIODE	1SS355TE-17	
D806	8-719-988-61	DIODE	1SS355TE-17	
D807	8-719-988-61	DIODE	1SS355TE-17	
D808	8-719-210-33	DIODE	EC10DS2-TE12L5	
D911	8-719-988-61	DIODE	1SS355TE-17	
D912	8-719-210-33	DIODE	EC10DS2-TE12L5	
D913	8-719-210-33	DIODE	EC10DS2-TE12L5	
D931	8-719-210-33	DIODE	EC10DS2-TE12L5	
D951	8-719-988-61	DIODE	1SS355TE-17	
		< GROUND >		
EP901	4-870-539-41	PLATE, GROUND		
		< FERRITE BEAD >		
FB412	1-414-772-11	FERRITE	0UH	
FB413	1-414-551-11	FERRITE	0UH	
FB415	1-414-772-11	FERRITE	0UH	
		< FILTER >		
FL201	1-233-289-21	FILTER, EMI (SMD)		
FL501	1-233-289-21	FILTER, EMI (SMD)		
FL502	1-233-289-21	FILTER, EMI (SMD)		
FL503	1-233-289-21	FILTER, EMI (SMD)		
		< IC >		
IC101	8-759-571-54	IC	M62493FP	
IC181	8-759-009-06	IC	MC14052BFEL	
IC191	8-759-571-53	IC	BA7615N	
IC201	8-759-571-51	IC	M62464FP	
IC301	8-759-495-26	IC	HA12215F	
IC501	8-759-653-44	IC	M30622MA-A26FP	
IC601	8-759-636-55	IC	M5218AFP-T1	
IC781	8-749-923-04	IC	TOTX178A (CD DIGITAL OUT OPTICAL)	
IC801	8-759-635-63	IC	M51943BSL-TP	
IC901	8-759-604-86	IC	M5F7807L	
IC911	8-759-231-53	IC	M5F7805L	
IC931	8-759-604-38	IC	M5F78M10L	
IC932	8-759-701-79	IC	NJM7812FA (LX9AV,LX10AV)	
IC932	8-759-604-39	IC	M5F78M12L (LX90AV)	
IC933	8-759-604-86	IC	M5F7807L	
IC951	8-759-604-90	IC	M5F7907L	
		< JACK >		
J701	1-794-148-21	JACK, PIN 8P (PHONO IN/MD IN/MD OUT/VIDEO)(AUDIO IN))		
J702	1-770-337-11	JACK, PIN 3P (VIDEO 1(VIDEO IN),VIDEO OUT)		
J703	1-779-380-11	JACK, PIN 6P (FRONT/REAR/CENTER IN)		
J704	1-770-377-31	JACK, PIN 1P (WOOFER OUT)		
J705	1-573-028-31	JACK, PIN 4P (DJ MIX) (LX9AV,LX10AV:MX,LX90AV)		
		< JUMPER RESISTOR >		
JR1	1-216-295-91	SHORT	0	
JR2	1-216-296-91	SHORT	0	
JR3	1-216-296-91	SHORT	0	
JR4	1-216-295-91	SHORT	0	

MAIN

Ref. No.	Part No.	Description		Remark
JR5	1-216-295-91	SHORT	0	
JR6	1-216-296-91	SHORT	0	
JR7	1-216-296-91	SHORT	0	
JR8	1-216-296-91	SHORT	0	
JR9	1-216-295-91	SHORT	0	
JR10	1-216-296-91	SHORT	0	
JR11	1-216-296-91	SHORT	0	
JR191	1-216-295-91	SHORT	0	
JR594	1-216-295-91	SHORT	0	
JR703	1-216-295-91	SHORT	0	
JR901	1-216-295-91	SHORT	0	
JR907	1-216-295-91	SHORT	0 (LX10AV)	
JR910	1-216-296-91	SHORT	0 (LX9AV,LX90AV)	
		< COIL >		
L201	1-412-032-11	INDUCTOR CHIP	100uH	
L781	1-412-032-11	INDUCTOR CHIP	100uH	
		< TRANSISTOR >		
Q111	8-729-620-05	TRANSISTOR	2SC2603TP-EF	
Q112	8-729-620-05	TRANSISTOR	2SC2603TP-EF	
Q113	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q115	8-729-029-86	TRANSISTOR	DTC124ESA-TP	
Q161	8-729-620-05	TRANSISTOR	2SC2603TP-EF	
Q162	8-729-620-05	TRANSISTOR	2SC2603TP-EF	
Q163	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q165	8-729-029-86	TRANSISTOR	DTC124ESA-TP	
Q271	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q281	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q291	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q331	8-729-140-04	TRANSISTOR	2SB1116-TP-LK	
Q332	8-729-029-66	TRANSISTOR	DTC114ESA-TP	
Q333	8-729-140-04	TRANSISTOR	2SB1116-TP-LK	
Q334	8-729-029-66	TRANSISTOR	DTC114ESA-TP	
Q335	8-729-029-66	TRANSISTOR	DTC114ESA-TP	
Q336	8-729-116-59	TRANSISTOR	2SB1068TP	
Q339	8-729-029-66	TRANSISTOR	DTC114ESA-TP	
Q731	8-729-141-30	TRANSISTOR	2SC3623ATP-LK	
Q801	8-729-620-05	TRANSISTOR	2SC2603TP-EF	
Q802	8-729-029-21	TRANSISTOR	DTA114ESA-TP	
Q803	8-729-029-21	TRANSISTOR	DTA114ESA-TP	
Q804	8-729-029-40	TRANSISTOR	DTA124ESA-TP	
Q901	8-729-040-20	TRANSISTOR	RT1P137L-TP	
Q902	8-729-029-40	TRANSISTOR	DTA124ESA-TP	
Q903	8-729-040-19	TRANSISTOR	RT1N137L-TP	
Q904	8-729-029-86	TRANSISTOR	DTC124ESA-TP	
Q905	8-729-119-76	TRANSISTOR	2SA1115TP-EF	
Q906	8-729-029-68	TRANSISTOR	DTC114TSA-TP	
Q911	8-729-040-20	TRANSISTOR	RT1P137L-TP	
Q912	8-729-029-86	TRANSISTOR	DTC124ESA-TP	
Q913	8-729-040-20	TRANSISTOR	RT1P137L-TP	
Q914	8-729-029-86	TRANSISTOR	DTC124ESA-TP	
Q931	8-729-040-20	TRANSISTOR	RT1P137L-TP	
Q932	8-729-029-86	TRANSISTOR	DTC124ESA-TP	
Q961	8-729-620-05	TRANSISTOR	2SC2603TP-EF	(LX10AV)
Q962	8-729-140-04	TRANSISTOR	2SB1116-TP-LK	(LX10AV)

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R111	1-216-073-00	METAL CHIP	10K	5%	1/10W
R112	1-216-121-91	RES-CHIP	1M	5%	1/10W
R113	1-216-103-00	METAL CHIP	180K	5%	1/10W
R114	1-216-043-91	RES-CHIP	560	5%	1/10W
R115	1-216-073-00	METAL CHIP	10K	5%	1/10W
R116	1-216-091-00	METAL CHIP	56K	5%	1/10W
R117	1-216-073-00	METAL CHIP	10K	5%	1/10W
R118	1-216-089-91	RES-CHIP	47K	5%	1/10W
R119	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R120	1-216-097-91	RES-CHIP	100K	5%	1/10W
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W
R122	1-216-295-91	SHORT	0		
R123	1-216-107-00	METAL CHIP	270K	5%	1/10W
R124	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R125	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R126	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R127	1-216-111-00	METAL CHIP	390K	5%	1/10W
R129	1-216-121-91	RES-CHIP	1M	5%	1/10W
R131	1-216-025-91	RES-CHIP	100	5%	1/10W
R132	1-216-025-91	RES-CHIP	100	5%	1/10W
R133	1-216-025-91	RES-CHIP	100	5%	1/10W
R161	1-216-073-00	METAL CHIP	10K	5%	1/10W
R162	1-216-121-91	RES-CHIP	1M	5%	1/10W
R163	1-216-103-00	METAL CHIP	180K	5%	1/10W
R164	1-216-043-91	RES-CHIP	560	5%	1/10W
R165	1-216-073-00	METAL CHIP	10K	5%	1/10W
R166	1-216-091-00	METAL CHIP	56K	5%	1/10W
R167	1-216-073-00	METAL CHIP	10K	5%	1/10W
R168	1-216-089-91	RES-CHIP	47K	5%	1/10W
R169	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R170	1-216-097-91	RES-CHIP	100K	5%	1/10W
R171	1-216-073-00	METAL CHIP	10K	5%	1/10W
R172	1-216-295-91	SHORT	0		
R173	1-216-107-00	METAL CHIP	270K	5%	1/10W
R174	1-216-073-00	METAL CHIP	10K	5%	1/10W
R175	1-216-097-91	RES-CHIP	100K	5%	1/10W
R177	1-216-111-00	METAL CHIP	390K	5%	1/10W
R178	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R179	1-216-121-91	RES-CHIP	1M	5%	1/10W
R201	1-216-025-91	RES-CHIP	100	5%	1/10W
R202	1-216-025-91	RES-CHIP	100	5%	1/10W
R203	1-216-041-00	METAL CHIP	470	5%	1/10W
R204	1-216-109-00	METAL CHIP	330K	5%	1/10W
R205	1-216-089-91	RES-CHIP	47K	5%	1/10W
R206	1-216-101-00	METAL CHIP	150K	5%	1/10W
R207	1-216-094-00	RES-CHIP	75K	5%	1/10W
R208	1-216-089-91	RES-CHIP	47K	5%	1/10W
R209	1-216-101-00	METAL CHIP	150K	5%	1/10W
R210	1-216-094-00	RES-CHIP	75K	5%	1/10W
R211	1-216-097-91	RES-CHIP	100K	5%	1/10W
R212	1-216-097-91	RES-CHIP	100K	5%	1/10W
R213	1-216-097-91	RES-CHIP	100K	5%	1/10W
R214	1-216-097-91	RES-CHIP	100K	5%	1/10W
R271	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R272	1-216-097-91	RES-CHIP	100K	5%	1/10W
R273	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R281	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R282	1-216-097-91	RES-CHIP	100K	5%	1/10W
R283	1-216-073-00	METAL CHIP	10K	5%	1/10W
R291	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R292	1-216-097-91	RES-CHIP	100K	5%	1/10W
R293	1-216-073-00	METAL CHIP	10K	5%	1/10W
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W
R302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R303	1-216-025-91	RES-CHIP	100	5%	1/10W
R304	1-216-025-91	RES-CHIP	100	5%	1/10W
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R306	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R307	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R308	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R309	1-216-081-00	METAL CHIP	22K	5%	1/10W
R311	1-216-121-91	RES-CHIP	1M	5%	1/10W
R312	1-216-102-00	RES-CHIP	160K	5%	1/10W
R313	1-216-097-91	RES-CHIP	100K	5%	1/10W
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W
R316	1-216-079-00	METAL CHIP	18K	5%	1/10W
R317	1-216-073-00	METAL CHIP	10K	5%	1/10W
R318	1-216-073-00	METAL CHIP	10K	5%	1/10W
R319	1-216-111-00	METAL CHIP	390K	5%	1/10W
R321	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R322	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R332	1-216-045-00	METAL CHIP	680	5%	1/10W
R333	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R334	1-216-045-00	METAL CHIP	680	5%	1/10W
R335	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R340	1-216-089-91	RES-CHIP	47K	5%	1/10W
R343	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R344	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R345	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R351	1-216-085-00	METAL CHIP	33K	5%	1/10W
R352	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R353	1-216-025-91	RES-CHIP	100	5%	1/10W
R354	1-216-025-91	RES-CHIP	100	5%	1/10W
R355	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R356	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R357	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R358	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R371	1-216-089-91	RES-CHIP	47K	5%	1/10W
R372	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R373	1-216-049-91	RES-CHIP	1K	5%	1/10W
R374	1-216-089-91	RES-CHIP	47K	5%	1/10W
R375	1-216-094-00	RES-CHIP	75K	5%	1/10W
R376	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R377	1-216-089-91	RES-CHIP	47K	5%	1/10W
R378	1-216-094-00	RES-CHIP	75K	5%	1/10W
R401	1-216-025-91	RES-CHIP	100	5%	1/10W
R402	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R413	1-216-295-91	SHORT	0		
R414	1-216-295-91	SHORT	0		
R451	1-216-025-91	RES-CHIP	100	5%	1/10W
R452	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R501	1-216-025-91	RES-CHIP	100	5%	1/10W
R503	1-216-025-91	RES-CHIP	100	5%	1/10W
R504	1-216-025-91	RES-CHIP	100	5%	1/10W
R505	1-216-025-91	RES-CHIP	100	5%	1/10W
R511	1-216-109-00	METAL CHIP	330K	5%	1/10W
R513	1-216-295-91	SHORT	0		
R517	1-216-073-00	METAL CHIP	10K	5%	1/10W
R518	1-216-025-91	RES-CHIP	100	5%	1/10W
R519	1-216-025-91	RES-CHIP	100	5%	1/10W
R520	1-216-025-91	RES-CHIP	100	5%	1/10W (LX9AV)
R521	1-216-025-91	RES-CHIP	100	5%	1/10W (LX9AV)
R522	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R523	1-216-025-91	RES-CHIP	100	5%	1/10W
R524	1-216-025-91	RES-CHIP	100	5%	1/10W
R525	1-216-025-91	RES-CHIP	100	5%	1/10W
R526	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R527	1-216-025-91	RES-CHIP	100	5%	1/10W
R528	1-216-025-91	RES-CHIP	100	5%	1/10W
R529	1-216-025-91	RES-CHIP	100	5%	1/10W
R530	1-216-025-91	RES-CHIP	100	5%	1/10W
R532	1-216-025-91	RES-CHIP	100	5%	1/10W
R533	1-216-025-91	RES-CHIP	100	5%	1/10W
R535	1-216-025-91	RES-CHIP	100	5%	1/10W
R536	1-216-025-91	RES-CHIP	100	5%	1/10W
R537	1-216-025-91	RES-CHIP	100	5%	1/10W
R538	1-216-025-91	RES-CHIP	100	5%	1/10W
R540	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R541	1-216-073-00	METAL CHIP	10K	5%	1/10W
R542	1-216-025-91	RES-CHIP	100	5%	1/10W
R543	1-216-025-91	RES-CHIP	100	5%	1/10W
R545	1-216-025-91	RES-CHIP	100	5%	1/10W
R546	1-216-025-91	RES-CHIP	100	5%	1/10W
R547	1-216-025-91	RES-CHIP	100	5%	1/10W
R548	1-216-025-91	RES-CHIP	100	5%	1/10W
R549	1-216-041-00	METAL CHIP	470	5%	1/10W
R550	1-216-025-91	RES-CHIP	100	5%	1/10W
R551	1-216-025-91	RES-CHIP	100	5%	1/10W
R552	1-216-025-91	RES-CHIP	100	5%	1/10W
R553	1-216-025-91	RES-CHIP	100	5%	1/10W
R554	1-216-025-91	RES-CHIP	100	5%	1/10W
R555	1-216-025-91	RES-CHIP	100	5%	1/10W
R556	1-216-025-91	RES-CHIP	100	5%	1/10W
R557	1-216-025-91	RES-CHIP	100	5%	1/10W
R558	1-216-025-91	RES-CHIP	100	5%	1/10W
R559	1-216-025-91	RES-CHIP	100	5%	1/10W
R561	1-216-025-91	RES-CHIP	100	5%	1/10W
R563	1-216-025-91	RES-CHIP	100	5%	1/10W
R565	1-216-025-91	RES-CHIP	100	5%	1/10W
R567	1-216-073-00	METAL CHIP	10K	5%	1/10W
R568	1-216-025-91	RES-CHIP	100	5%	1/10W
R569	1-216-025-91	RES-CHIP	100	5%	1/10W
R570	1-216-089-91	RES-CHIP	47K	5%	1/10W
R572	1-216-025-91	RES-CHIP	100	5%	1/10W
R573	1-216-025-91	RES-CHIP	100	5%	1/10W
R574	1-216-025-91	RES-CHIP	100	5%	1/10W
R575	1-216-025-91	RES-CHIP	100	5%	1/10W
R576	1-216-025-91	RES-CHIP	100	5%	1/10W
R577	1-216-025-91	RES-CHIP	100	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R578	1-216-025-91	RES-CHIP	100	5%	1/10W
R579	1-216-025-91	RES-CHIP	100	5%	1/10W
R580	1-216-025-91	RES-CHIP	100	5%	1/10W
R581	1-216-025-91	RES-CHIP	100	5%	1/10W
R582	1-216-025-91	RES-CHIP	100	5%	1/10W
R583	1-216-025-91	RES-CHIP	100	5%	1/10W
R584	1-216-025-91	RES-CHIP	100	5%	1/10W
R585	1-216-025-91	RES-CHIP	100	5%	1/10W
R586	1-216-025-91	RES-CHIP	100	5%	1/10W
R587	1-216-025-91	RES-CHIP	100	5%	1/10W
R588	1-216-025-91	RES-CHIP	100	5%	1/10W
R589	1-216-025-91	RES-CHIP	100	5%	1/10W
R590	1-216-025-91	RES-CHIP	100	5%	1/10W
R591	1-216-025-91	RES-CHIP	100	5%	1/10W
R593	1-216-025-91	RES-CHIP	100	5%	1/10W
R594	1-216-073-00	METAL CHIP	10K	5%	1/10W
R595	1-216-089-91	RES-CHIP	47K	5%	1/10W
R596	1-216-295-91	SHORT	0 (LX90AV)		
R596	1-216-081-00	METAL CHIP	22K	5%	1/10W
					(LX10AV:E,MX,AR)
R596	1-216-089-91	RES-CHIP	47K	5%	1/10W
					(LX10AV:EA,MY,SP,AUS)
R596	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
					(LX9AV)
R597	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
					(LX10AV:EA,MY,SP,AUS)
R597	1-216-089-91	RES-CHIP	47K	5%	1/10W
					(LX9AV,LX10AV:E,MX,AR,LX90AV)
R600	1-216-025-91	RES-CHIP	100	5%	1/10W
R601	1-216-049-91	RES-CHIP	1K	5%	1/10W
R602	1-216-049-91	RES-CHIP	1K	5%	1/10W
R603	1-216-089-91	RES-CHIP	47K	5%	1/10W
R604	1-216-049-91	RES-CHIP	1K	5%	1/10W
					(LX10AV)
R604	1-216-047-91	RES-CHIP	820	5%	1/10W
					(LX9AV,LX90AV)
R605	1-216-115-00	METAL CHIP	560K	5%	1/10W
R606	1-216-089-91	RES-CHIP	47K	5%	1/10W
R607	1-216-049-91	RES-CHIP	1K	5%	1/10W
R608	1-216-097-91	RES-CHIP	100K	5%	1/10W
R609	1-216-033-00	METAL CHIP	220	5%	1/10W
R651	1-216-049-91	RES-CHIP	1K	5%	1/10W
R652	1-216-049-91	RES-CHIP	1K	5%	1/10W
R653	1-216-089-91	RES-CHIP	47K	5%	1/10W
R654	1-216-049-91	RES-CHIP	1K	5%	1/10W
					(LX10AV)
R654	1-216-047-91	RES-CHIP	820	5%	1/10W
					(LX9AV,LX90AV)
R655	1-216-115-00	METAL CHIP	560K	5%	1/10W
R656	1-216-089-91	RES-CHIP	47K	5%	1/10W
R657	1-216-049-91	RES-CHIP	1K	5%	1/10W
R658	1-216-097-91	RES-CHIP	100K	5%	1/10W
R659	1-216-033-00	METAL CHIP	220	5%	1/10W
R701	1-216-049-91	RES-CHIP	1K	5%	1/10W
R702	1-216-097-91	RES-CHIP	100K	5%	1/10W
R703	1-216-049-91	RES-CHIP	1K	5%	1/10W
R704	1-216-097-91	RES-CHIP	100K	5%	1/10W
R705	1-216-049-91	RES-CHIP	1K	5%	1/10W
R706	1-216-097-91	RES-CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R707	1-216-049-91	RES-CHIP	1K	5%	1/10W
					(LX9AV,LX10AV:MX,LX90AV)
R708	1-216-049-91	RES-CHIP	1K	5%	1/10W
					(LX9AV,LX10AV:MX,LX90AV)
R709	1-216-049-91	RES-CHIP	1K	5%	1/10W
					(LX9AV,LX10AV:MX,LX90AV)
R710	1-216-049-91	RES-CHIP	1K	5%	1/10W
					(LX9AV,LX10AV:MX,LX90AV)
R711	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R712	1-216-073-00	METAL CHIP	10K	5%	1/10W
R713	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R714	1-216-073-00	METAL CHIP	10K	5%	1/10W
R715	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R716	1-216-073-00	METAL CHIP	10K	5%	1/10W
R717	1-216-097-91	RES-CHIP	100K	5%	1/10W
					(LX9AV,LX10AV:MX,LX90AV)
R718	1-216-097-91	RES-CHIP	100K	5%	1/10W
					(LX9AV,LX10AV:MX,LX90AV)
R721	1-216-022-00	METAL CHIP	75	5%	1/10W
R722	1-216-015-00	METAL CHIP	39	5%	1/10W
R723	1-216-022-00	METAL CHIP	75	5%	1/10W
R724	1-216-073-00	METAL CHIP	10K	5%	1/10W
R731	1-216-073-00	METAL CHIP	10K	5%	1/10W
R732	1-216-049-91	RES-CHIP	1K	5%	1/10W
R733	1-216-097-91	RES-CHIP	100K	5%	1/10W
R734	1-216-049-91	RES-CHIP	1K	5%	1/10W
R751	1-216-049-91	RES-CHIP	1K	5%	1/10W
R752	1-216-097-91	RES-CHIP	100K	5%	1/10W
R753	1-216-049-91	RES-CHIP	1K	5%	1/10W
R754	1-216-097-91	RES-CHIP	100K	5%	1/10W
R755	1-216-049-91	RES-CHIP	1K	5%	1/10W
R756	1-216-097-91	RES-CHIP	100K	5%	1/10W
R761	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R762	1-216-073-00	METAL CHIP	10K	5%	1/10W
R763	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R764	1-216-073-00	METAL CHIP	10K	5%	1/10W
R765	1-216-068-00	METAL CHIP	6.2K	5%	1/10W
R766	1-216-073-00	METAL CHIP	10K	5%	1/10W
R801	1-216-049-91	RES-CHIP	1K	5%	1/10W
R802	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R803	1-216-025-91	RES-CHIP	100	5%	1/10W
R804	1-216-089-91	RES-CHIP	47K	5%	1/10W
R805	1-216-089-91	RES-CHIP	47K	5%	1/10W
R806	1-216-073-00	METAL CHIP	10K	5%	1/10W
R807	1-216-073-00	METAL CHIP	10K	5%	1/10W
R808	1-216-049-91	RES-CHIP	1K	5%	1/10W
R809	1-216-097-91	RES-CHIP	100K	5%	1/10W
R810	1-216-033-00	METAL CHIP	220	5%	1/10W
R811	1-216-097-91	RES-CHIP	100K	5%	1/10W
R901	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R902	1-216-081-00	METAL CHIP	22K	5%	1/10W
R903	1-216-049-91	RES-CHIP	1K	5%	1/10W
R961	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
					(LX10AV)
R962	1-216-079-00	METAL CHIP	18K	5%	1/10W
					(LX10AV)
R963	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
					(LX10AV)

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
RV301	1-238-600-11	RES, ADJ, CARBON 10K			
RV351	1-238-600-11	RES, ADJ, CARBON 10K			
		< VIBRATOR >			
X501	1-567-098-41	VIBRATOR, CRYSTAL 32.768KHz			
X502	1-781-107-21	VIBRATOR, SERAMIC 16MHz			
**********					
	A-4428-180-A	MIC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C801	1-162-306-11	CERAMIC	0.01uF	30%	16V
C802	1-162-215-31	CERAMIC	47PF	5%	50V
C803	1-126-960-11	ELECT	1uF	20%	50V
C804	1-126-959-11	ELECT	0.47uF	20%	50V
C805	1-162-294-31	CERAMIC	0.001uF	10%	50V
C806	1-162-215-31	CERAMIC	47PF	5%	50V
C810	1-162-286-21	CERAMIC	220PF	10%	50V
C813	1-137-370-11	MYLAR	0.01uF	5%	50V
C814	1-162-215-31	CERAMIC	47PF	5%	50V
C815	1-162-215-31	CERAMIC	47PF	5%	50V
C816	1-126-961-11	ELECT	2.2uF	20%	50V
C817	1-126-961-11	ELECT	2.2uF	20%	50V
C818	1-162-215-31	CERAMIC	47PF	5%	50V
C819	1-162-282-31	CERAMIC	100PF	10%	50V
C821	1-104-664-11	ELECT	47uF	20%	16V
C822	1-104-664-11	ELECT	47uF	20%	16V
C836	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN813	1-785-320-11	PIN, CONNECTOR (STRAIGHT) 8P			
		< EARTH TERMINAL >			
* EPT802	1-537-738-21	TERMINAL, EARTH			
		< FILTER >			
FL801	1-424-228-11	FILTER, NOISE			
		< IC >			
IC850	8-759-634-50	IC M5218AL			
IC852	8-759-634-50	IC M5218AL			
		< JACK >			
J801	1-770-226-41	JACK (LARGE TYPE) (MIX MIC)			
J802	1-770-226-41	JACK (LARGE TYPE) (GUITAR)			
		< RESISTOR >			
R806	1-247-903-00	CARBON	1M	5%	1/4W
R807	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W
R850	1-249-417-11	CARBON	1K	5%	1/4W
R852	1-249-441-11	CARBON	100K	5%	1/4W
R853	1-249-417-11	CARBON	1K	5%	1/4W
R854	1-249-437-11	CARBON	47K	5%	1/4W
R855	1-249-429-11	CARBON	10K	5%	1/4W
R856	1-247-891-00	CARBON	330K	5%	1/4W
R857	1-249-417-11	CARBON	1K	5%	1/4W
R869	1-249-434-11	CARBON	27K	5%	1/4W
R870	1-247-903-00	CARBON	1M	5%	1/4W
R871	1-249-417-11	CARBON	1K	5%	1/4W
R872	1-249-421-11	CARBON	2.2K	5%	1/4W
R873	1-249-417-11	CARBON	1K	5%	1/4W
R874	1-249-417-11	CARBON	1K	5%	1/4W
**********					
	A-4428-148-A	PA BOARD, COMPLETE (LX9AV)			
		**********			
	A-4428-151-A	PA BOARD, COMPLETE (LX10AV:E,MX,AR)			
		**********			
	A-4428-938-A	PA BOARD, COMPLETE (LX10AV:EA,MY,SP,AUS)			
		**********			
	A-4428-140-A	PA BOARD, COMPLETE (LX90AV)			
		**********			
		< CAPACITOR >			
C401	1-126-963-11	ELECT	4.7uF	20.00%	50V (LX10AV,LX90AV)
C402	1-164-159-21	CERAMIC	0.1uF		50V (LX9AV)
C403	1-164-159-21	CERAMIC	0.1uF		50V (LX9AV)
C404	1-164-159-21	CERAMIC	0.1uF		50V (LX9AV)
C405	1-164-159-21	CERAMIC	0.1uF		50V (LX9AV)
C406	1-164-159-21	CERAMIC	0.1uF		50V
C407	1-164-159-21	CERAMIC	0.1uF		50V
C408	1-164-159-21	CERAMIC	0.1uF		50V
C409	1-164-159-21	CERAMIC	0.1uF		50V
C410	1-164-159-21	CERAMIC	0.1uF		50V
C411	1-164-159-21	CERAMIC	0.1uF		50V
C412	1-161-494-00	CERAMIC	0.022uF	25V	
C413	1-161-494-00	CERAMIC	0.022uF	25V	
C414	1-161-494-00	CERAMIC	0.022uF	25V	
C415	1-161-494-00	CERAMIC	0.022uF	25V	
C416	1-161-494-00	CERAMIC	0.022uF	25V	
C432	1-104-665-11	ELECT	100uF	20.00%	10V
C433	1-126-962-11	ELECT	3.3uF	20.00%	50V (LX10AV)
C433	1-126-961-11	ELECT	2.2uF	20.00%	50V (LX9AV,LX90AV)
C801	1-128-582-11	ELECT	10uF	20.00%	100V
C802	1-162-292-31	CERAMIC	680PF	10%	50V
C803	1-162-286-21	CERAMIC	220PF	10.00%	50V
C804	1-126-967-11	ELECT	47uF	20.00%	50V
C807	1-128-560-11	ELECT	22uF	20.00%	100V
C808	1-130-777-00	MYLAR	0.1uF	10.00%	100V
C809	1-130-777-00	MYLAR	0.1uF	10.00%	100V
C810	1-128-562-11	ELECT	47uF	20.00%	100V (LX10AV)
C810	1-128-578-11	ELECT	1uF	20.00%	100V (LX9AV,LX90AV)
C811	1-130-493-00	MYLAR	0.068uF	5%	50V
C812	1-130-493-00	MYLAR	0.068uF	5%	50V

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Ref. No.	Part No.	Description			Remark
C813	1-161-494-00	CERAMIC	0.022uF	25V	
C814	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C815	1-126-959-11	ELECT	0.47uF	20.00% 50V	
C830	1-107-714-11	ELECT	10uF	20.00% 50V	
C831	1-126-964-11	ELECT	10uF	20.00% 50V	
C832	1-126-967-11	ELECT	47uF	20.00% 50V	
C841	1-127-811-11	ELECT	3300uF	20% 50V	
C842	1-127-754-11	ELECT	3300uF	20% 80V	
C844	1-130-777-00	MYLAR	0.1uF	10.00% 100V	
C845	1-126-943-11	ELECT	2200uF	20.00% 25V	
C847	1-164-159-21	CERAMIC	0.1uF	50V	
C848	1-164-159-21	CERAMIC	0.1uF	50V	
C849	1-164-159-21	CERAMIC	0.1uF	50V	
C850	1-107-721-11	ELECT	4.7uF	20.00% 100V	
C851	1-128-582-11	ELECT	10uF	20.00% 100V	
C852	1-162-292-31	CERAMIC	680PF	10% 50V	
C853	1-162-286-21	CERAMIC	220PF	10.00% 50V	
C854	1-126-967-11	ELECT	47uF	20.00% 50V	
C857	1-128-560-11	ELECT	22uF	20.00% 100V	
C858	1-164-159-21	CERAMIC	0.1uF	50V	
C859	1-164-159-21	CERAMIC	0.1uF	50V	
C861	1-130-493-00	MYLAR	0.068uF	5% 50V	
C862	1-130-493-00	MYLAR	0.068uF	5% 50V	
C863	1-126-961-11	ELECT	2.2uF	20.00% 50V	(LX9AV,LX90AV)
C891	1-127-811-11	ELECT	3300uF	20% 50V	
C892	1-127-754-11	ELECT	3300uF	20% 80V	
C894	1-130-777-00	MYLAR	0.1uF	10.00% 100V	
C895	1-107-721-11	ELECT	4.7uF	20.00% 100V	
C902	1-164-159-21	CERAMIC	0.1uF	50V	(LX9AV,LX90AV)
C903	1-126-933-11	ELECT	100uF	20.00% 16V	(LX9AV,LX90AV)
C904	1-126-964-11	ELECT	10uF	20.00% 50V	
C905	1-126-968-11	ELECT	100uF	20.00% 50V	
C906	1-126-943-11	ELECT	2200uF	20.00% 25V	(LX9AV,LX90AV)
C909	1-164-159-21	CERAMIC	0.1uF	50V	
C910	1-104-665-11	ELECT	100uF	20.00% 10V	(LX9AV,LX90AV)
C962	1-128-563-11	ELECT	100uF	20.00% 100V	(LX9AV,LX90AV)
		< CONNECTOR >			
CN803	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
CN804	1-778-981-21	CONNECTOR, BOARD TO BOARD 13P			
CN904	1-785-320-11	PIN, CONNECTOR (STRAIGHT) 8P			(LX9AV,LX90AV)
		< DIODE >			
D401	8-719-991-33	DIODE	1SS133T-77		
D402	8-719-991-33	DIODE	1SS133T-77		
D403	8-719-991-33	DIODE	1SS133T-77		
D404	8-719-991-33	DIODE	1SS133T-77		
D405	8-719-991-33	DIODE	1SS133T-77		
D406	8-719-991-33	DIODE	1SS133T-77		
D407	8-719-991-33	DIODE	1SS133T-77		
D408	8-719-991-33	DIODE	1SS133T-77		
D409	8-719-991-33	DIODE	1SS133T-77		
D410	8-719-991-33	DIODE	1SS133T-77		
D801	8-719-991-33	DIODE	1SS133T-77		
D802	8-719-110-39	DIODE	MTZJ-T-77-15A		(LX9AV,LX90AV)
D803	8-719-991-33	DIODE	1SS133T-77		
D804	8-719-991-33	DIODE	1SS133T-77		
D805	8-719-991-33	DIODE	1SS133T-77		
D831	8-719-510-68	DIODE	D5SBA204101		
D833	8-719-200-82	DIODE	11ES2-NTA1B		
D834	8-719-200-82	DIODE	11ES2-NTA1B		
D835	8-719-200-82	DIODE	11ES2-NTA1B		
D836	8-719-200-82	DIODE	11ES2-NTA1B		
D841	8-719-200-82	DIODE	11ES2-NTA1B		
D842	8-719-200-82	DIODE	11ES2-NTA1B		
D843	8-719-200-82	DIODE	11ES2-NTA1B		
D844	8-719-200-82	DIODE	11ES2-NTA1B		
D851	8-719-991-33	DIODE	1SS133T-77		
D852	8-719-110-39	DIODE	MTZJ-T-77-15A		(LX9AV,LX90AV)
D853	8-719-991-33	DIODE	1SS133T-77		(LX9AV,LX90AV)
D902	8-719-210-21	DIODE	11EQS04-NTA1B		(LX9AV,LX90AV)
D903	8-719-210-21	DIODE	11EQS04-NTA1B		(LX9AV,LX90AV)
D904	8-719-210-21	DIODE	11EQS04-NTA1B		(LX9AV,LX90AV)
D905	8-719-210-21	DIODE	11EQS04-NTA1B		(LX9AV,LX90AV)
D906	8-719-991-33	DIODE	1SS133T-77		(LX9AV,LX90AV)
D907	8-719-200-82	DIODE	11ES2-NTA1B		(LX9AV,LX90AV)
D908	8-719-200-82	DIODE	11ES2-NTA1B		(LX9AV,LX90AV)
D909	8-719-200-82	DIODE	11ES2-NTA1B		(LX9AV,LX90AV)
D910	8-719-200-82	DIODE	11ES2-NTA1B		(LX9AV,LX90AV)
D911	8-719-982-37	DIODE	MTZJ-T-77-39C		
D912	8-719-109-89	DIODE	MTZJ-T-77-5.6		
D913	8-719-991-33	DIODE	1SS133T-77		(LX9AV,LX90AV)
		< GROUND >			
EPT801	4-870-539-41	PLATE, GROUND			
EPT802	4-870-539-41	PLATE, GROUND			
		< IC >			
IC801	8-749-017-05	IC STK412-040 (LX10AV)			
IC801	8-749-017-03	IC STK412-020 (LX9AV,LX90AV)			
IC901	8-759-450-47	IC BA05T (LX9AV,LX90AV)			
		< COIL >			
L401	1-420-872-00	COIL, AIR-CORE (LX9AV)			
L402	1-420-872-00	COIL, AIR-CORE (LX9AV)			
L403	1-420-872-00	COIL, AIR-CORE			
L404	1-420-872-00	COIL, AIR-CORE			
L405	1-420-872-00	COIL, AIR-CORE			

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q401	8-729-029-21	TRANSISTOR	DTA114ESA-TP			
Q402	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
Q403	8-729-029-21	TRANSISTOR	DTA114ESA-TP			
Q404	8-729-029-21	TRANSISTOR	DTA114ESA-TP			
Q406	8-729-029-86	TRANSISTOR	DTC124ESA-TP			
Q407	8-729-029-86	TRANSISTOR	DTC124ESA-TP			
Q431	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q432	8-729-119-76	TRANSISTOR	2SA1115TP-EF			
Q433	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q434	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q437	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q439	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q801	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
Q803	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA			
Q804	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
Q805	8-729-231-55	TRANSISTOR	2SC2878AB-TPE2			
Q831	8-729-029-86	TRANSISTOR	DTC124ESA-TP			
Q832	8-729-620-05	TRANSISTOR	2SC2603TP-EF			
Q833	8-729-029-40	TRANSISTOR	DTA124ESA-TP			
Q834	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
Q851	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			
Q855	8-729-231-55	TRANSISTOR	2SC2878AB-TPE2			
Q901	8-729-620-05	TRANSISTOR	2SC2603TP-EF			(LX9AV,LX90AV)
Q902	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA			(LX9AV,LX90AV)
Q903	8-729-118-01	TRANSISTOR	2SB1014TP-34			
Q904	8-729-119-76	TRANSISTOR	2SA1115TP-EF			
Q905	8-729-048-13	TRANSISTOR	2SC3616-KLM-T			1(LX9AV,LX90AV)
Q906	8-729-029-21	TRANSISTOR	DTA114ESA-TP			(LX9AV,LX90AV)
Q907	8-729-029-21	TRANSISTOR	DTA114ESA-TP			(LX9AV,LX90AV)
Q908	8-729-119-76	TRANSISTOR	2SA1115TP-EF (LX10AV)			
		< RESISTOR >				
⚠R401	1-216-430-11	METAL OXIDE	390	5%	1W	(LX10AV)
⚠R401	1-215-863-11	METAL OXIDE	100	5%	1W	(LX9AV,LX90AV)
R402	1-216-430-11	METAL OXIDE	390	5%	1W	(LX10AV)
R402	1-215-863-11	METAL OXIDE	100	5%	1W	(LX9AV,LX90AV)
R403	1-216-430-11	METAL OXIDE	390	5%	1W	LX10AV)
R403	1-215-863-11	METAL OXIDE	100	5%	1W	(LX9AV,LX90AV)
R406	1-249-437-11	CARBON	47K	5%	1/4W	
R407	1-249-437-11	CARBON	47K	5%	1/4W	
R408	1-249-440-11	CARBON	82K	5%	1/4W	
R409	1-249-437-11	CARBON	47K	5%	1/4W	
R410	1-249-389-11	CARBON	4.7	5%	1/4W	F (LX9AV)
R411	1-249-389-11	CARBON	4.7	5%	1/4W	F (LX9AV)
R412	1-249-389-11	CARBON	4.7	5%	1/4W	F (LX9AV)
R413	1-249-389-11	CARBON	4.7	5%	1/4W	F (LX9AV)
R414	1-260-076-11	CARBON	10	5%	1/2W	(LX9AV)
R415	1-260-076-11	CARBON	10	5%	1/2W	(LX9AV)
R416	1-249-389-11	CARBON	4.7	5%	1/4W	F
R417	1-249-389-11	CARBON	4.7	5%	1/4W	F
R418	1-249-389-11	CARBON	4.7	5%	1/4W	F
R419	1-249-389-11	CARBON	4.7	5%	1/4W	F
R420	1-249-389-11	CARBON	4.7	5%	1/4W	F
R421	1-249-389-11	CARBON	4.7	5%	1/4W	F
R422	1-260-076-11	CARBON	10	5%	1/2W	
R423	1-260-076-11	CARBON	10	5%	1/2W	
R424	1-260-076-11	CARBON	10	5%	1/2W	
R425	1-249-437-11	CARBON	47K	5%	1/4W	
R429	1-249-437-11	CARBON	47K	5%	1/4W	
R430	1-249-437-11	CARBON	47K	5%	1/4W	
R431	1-249-438-11	CARBON	56K	5%	1/4W	
R432	1-249-437-11	CARBON	47K	5%	1/4W	
R434	1-247-863-91	CARBON	22K	5%	1/4W	
R435	1-249-425-11	CARBON	4.7K	5%	1/4W	F (LX10AV)
R437	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R439	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R440	1-247-863-91	CARBON	22K	5%	1/4W	(LX10AV)
R440	1-249-437-11	CARBON	47K	5%	1/4W	(LX9AV,LX90AV)
R441	1-249-435-11	CARBON	33K	5%	1/4W	
R442	1-249-435-11	CARBON	33K	5%	1/4W	
R443	1-249-434-11	CARBON	27K	5%	1/4W	
R444	1-249-439-11	CARBON	68K	5%	1/4W	
R446	1-249-429-11	CARBON	10K	5%	1/4W	
R447	1-249-437-11	CARBON	47K	5%	1/4W	
R450	1-249-437-11	CARBON	47K	5%	1/4W	
R801	1-249-417-11	CARBON	1K	5%	1/4W	F
R802	1-249-437-11	CARBON	47K	5%	1/4W	
R803	1-249-415-11	CARBON	680	5%	1/4W	F
R804	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R805	1-216-436-00	METAL OXIDE	3.9K	5%	1W	
⚠R806	1-216-436-00	METAL OXIDE	3.9K	5%	1W	
⚠R807	1-212-881-11	FUSIBLE	100	5%	1/4W	
⚠R808	1-220-893-11	METAL	0.22	10%	5W	
R809	1-260-076-11	CARBON	10	5%	1/2W	
R810	1-249-437-11	CARBON	47K	5%	1/4W	
R811	1-249-417-11	CARBON	1K	5%	1/4W	F
R812	1-249-431-11	CARBON	15K	5%	1/4W	
R813	1-249-441-11	CARBON	100K	5%	1/4W	
R814	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R815	1-247-863-91	CARBON	22K	5%	1/4W	
R816	1-249-429-11	CARBON	10K	5%	1/4W	
R817	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R818	1-249-417-11	CARBON	1K	5%	1/4W	F
R819	1-249-439-11	CARBON	68K	5%	1/4W	
⚠R820	1-202-972-61	FUSIBLE	1	5%	1/4W	
R821	1-249-435-11	CARBON	33K	5%	1/4W	
R822	1-247-863-91	CARBON	22K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

PA PANEL FL

Ref. No.	Part No.	Description			Remark
R823	1-247-863-91	CARBON	22K	5%	1/4W
R824	1-249-416-11	CARBON	820	5%	1/4W F
⚠R825	1-215-891-11	METAL OXIDE	680	5%	2W
R827	1-249-441-11	CARBON	100K	5%	1/4W
R828	1-247-903-00	CARBON	1M	5%	1/4W
R831	1-249-441-11	CARBON	100K	5%	1/4W
R832	1-249-441-11	CARBON	100K	5%	1/4W
R833	1-247-858-11	CARBON	13K	5%	1/4W
R834	1-249-429-11	CARBON	10K	5%	1/4W
R835	1-249-437-11	CARBON	47K	5%	1/4W
R836	1-249-417-11	CARBON	1K	5%	1/4W F
R837	1-249-435-11	CARBON	33K	5%	1/4W
R838	1-249-435-11	CARBON	33K	5%	1/4W
⚠R839	1-215-877-11	METAL OXIDE	22K	5%	1W
R840	1-249-402-11	CARBON	56	5%	1/4W F
R851	1-249-417-11	CARBON	1K	5%	1/4W F
R852	1-249-437-11	CARBON	47K	5%	1/4W
R853	1-249-415-11	CARBON	680	5%	1/4W F
⚠R855	1-215-891-11	METAL OXIDE	680	5%	2W
⚠R857	1-212-881-11	FUSIBLE	100	5%	1/4W
⚠R858	1-220-893-11	METAL	0.22	10%	5W
R859	1-260-076-11	CARBON	10	5%	1/2W
R860	1-249-437-11	CARBON	47K	5%	1/4W
R861	1-249-417-11	CARBON	1K	5%	1/4W F
R862	1-249-431-11	CARBON	15K	5%	1/4W
R863	1-249-441-11	CARBON	100K	5%	1/4W
R864	1-249-425-11	CARBON	4.7K	5%	1/4W F (LX9AV,LX90AV)
R865	1-247-863-91	CARBON	22K	5%	1/4W (LX9AV,LX90AV)
R868	1-249-417-11	CARBON	1K	5%	1/4W F
R880	1-249-402-11	CARBON	56	5%	1/4W F
⚠R888	1-220-893-11	METAL	0.22	10%	5W
⚠R889	1-215-877-11	METAL OXIDE	22K	5%	1W
R901	1-249-429-11	CARBON	10K	5%	1/4W (LX9AV,LX90AV)
R902	1-249-441-11	CARBON	100K	5%	1/4W (LX9AV,LX90AV)
R903	1-249-429-11	CARBON	10K	5%	1/4W
R904	1-249-417-11	CARBON	1K	5%	1/4W F
R905	1-249-429-11	CARBON	10K	5%	1/4W
R906	1-247-807-31	CARBON	100	5%	1/4W
R907	1-247-807-31	CARBON	100	5%	1/4W
R908	1-247-807-31	CARBON	100	5%	1/4W (LX9AV,LX90AV)
R911	1-249-429-11	CARBON	10K	5%	1/4W (LX9AV,LX90AV)
R912	1-249-429-11	CARBON	10K	5%	1/4W (LX9AV,LX90AV)
R915	1-247-791-91	CARBON	22	5%	1/4W (LX10AV)
⚠R916	1-215-915-11	METAL OXIDE	470	5%	3W (LX10AV)
		< RELAY >			
RY401	1-755-168-11	RELAY			
RY402	1-515-920-11	RELAY (24V)			
RY403	1-515-920-11	RELAY (24V)			

Ref. No.	Part No.	Description			Remark
		< THERMISTOR >			
TH831	1-807-796-11	THERMISTOR			
		< TERMINAL >			
TM401	1-537-842-11	TERMINAL BOARD			
TM402	1-537-510-31	TERMINAL BOARD (SPEAKER) (6P)			
**********					
	A-4428-215-A	PANEL FL BOARD, COMPLETE			
		**********			
	4-225-511-01	HOLDER(FL)			
*	4-949-935-81	CUSHION (FL)			
		< CAPACITOR >			
C601	1-124-589-11	ELECT	47uF	20%	16V
C602	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C603	1-164-159-21	CERAMIC	0.1uF		50V
C604	1-126-960-11	ELECT	1uF	20.00%	50V
C606	1-126-960-11	ELECT	1uF	20.00%	50V
C616	1-162-294-31	CERAMIC	0.001uF	10%	50V
C617	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C621	1-126-964-11	ELECT	10uF	20.00%	50V
C622	1-162-303-11	CERAMIC	0.0033uF	30.00%	16V
C623	1-126-964-11	ELECT	10uF	20.00%	50V
C624	1-104-664-11	ELECT	47uF	20.00%	16V
C625	1-126-963-11	ELECT	4.7uF	20.00%	50V
C626	1-126-964-11	ELECT	10uF	20.00%	50V
C641	1-162-286-21	CERAMIC	220PF	10.00%	50V
C642	1-162-286-21	CERAMIC	220PF	10.00%	50V
C643	1-162-286-21	CERAMIC	220PF	10.00%	50V
C644	1-162-286-21	CERAMIC	220PF	10.00%	50V
C645	1-162-286-21	CERAMIC	220PF	10.00%	50V
C646	1-162-286-21	CERAMIC	220PF	10.00%	50V
C647	1-162-286-21	CERAMIC	220PF	10.00%	50V
C648	1-162-286-21	CERAMIC	220PF	10.00%	50V
C649	1-162-286-21	CERAMIC	220PF	10.00%	50V
C650	1-162-286-21	CERAMIC	220PF	10.00%	50V
C651	1-162-286-21	CERAMIC	220PF	10.00%	50V
C652	1-162-286-21	CERAMIC	220PF	10.00%	50V
C653	1-162-286-21	CERAMIC	220PF	10.00%	50V
C654	1-162-286-21	CERAMIC	220PF	10.00%	50V
C655	1-162-286-21	CERAMIC	220PF	10.00%	50V
C656	1-162-286-21	CERAMIC	220PF	10.00%	50V
		< CONNECTOR >			
CN601	1-784-735-11	CONNECTOR, FFC 13P			
CN602	1-784-782-11	CONNECTOR, FFC 21P			
		< DIODE >			
D601	8-719-071-44	DIODE	SELS5223C-TP15 (POWER)		
D602	8-719-058-04	DIODE	SEL5223S-TP15 (DALLY)		
D603	8-719-058-04	DIODE	SEL5223S-TP15 (REC)		
D604	8-719-058-04	DIODE	SEL5223S-TP15 (SYNC EQ)		
D605	8-719-058-04	DIODE	SEL5223S-TP15 (SYNC BASS)		
D608	8-719-050-84	DIODE	RB441Q-40T-77		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
D617	8-719-058-04	DIODE	SEL5223S-TP1		(SURROUND)
		< FILTER >			
FL601	1-517-940-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC601	8-759-653-43	IC TMP88CS76F-1A25			
IC603	8-759-083-77	IC BA3830F			
		< COIL >			
L601	1-410-517-11	INDUCTOR	47uH		
L602	1-410-517-11	INDUCTOR	47uH		
L603	1-410-517-11	INDUCTOR	47uH		
		< LINE FILTER >			
LF601	1-424-228-11	FILTER, NOISE			
		< TRANSISTOR >			
Q601	8-729-620-05	TRANSISTOR	2SC2603TP-EF		
Q602	8-729-140-04	TRANSISTOR	2SB1116-TP-LK		
Q603	8-729-140-04	TRANSISTOR	2SB1116-TP-LK		
Q605	8-729-029-23	TRANSISTOR	DTA114TSA-TP		
Q606	8-729-029-23	TRANSISTOR	DTA114TSA-TP		
Q607	8-729-029-23	TRANSISTOR	DTA114TSA-TP		
Q608	8-729-047-58	TRANSISTOR	DTC114TLTL2		
Q609	8-729-047-58	TRANSISTOR	DTC114TLTL2		
Q610	8-729-047-58	TRANSISTOR	DTC114TLTL2		
		< RESISTOR >			
R601	1-247-893-11	CARBON	390K	5%	1/4W
R602	1-247-893-11	CARBON	390K	5%	1/4W
R603	1-249-441-11	CARBON	100K	5%	1/4W
R604	1-249-441-11	CARBON	100K	5%	1/4W
R605	1-247-807-31	CARBON	100	5%	1/4W
R608	1-249-435-11	CARBON	33K	5%	1/4W
R609	1-247-895-91	CARBON	470K	5%	1/4W
R611	1-249-429-11	CARBON	10K	5%	1/4W
R612	1-247-807-31	CARBON	100	5%	1/4W
R613	1-247-807-31	CARBON	100	5%	1/4W
R614	1-247-807-31	CARBON	100	5%	1/4W
R615	1-249-429-11	CARBON	10K	5%	1/4W
R616	1-249-429-11	CARBON	10K	5%	1/4W
R617	1-249-429-11	CARBON	10K	5%	1/4W
R618	1-249-429-11	CARBON	10K	5%	1/4W
R619	1-249-429-11	CARBON	10K	5%	1/4W
R620	1-249-429-11	CARBON	10K	5%	1/4W
R621	1-249-429-11	CARBON	10K	5%	1/4W
R622	1-249-429-11	CARBON	10K	5%	1/4W
R623	1-247-903-00	CARBON	1M	5%	1/4W
R624	1-247-807-31	CARBON	100	5%	1/4W
R625	1-247-807-31	CARBON	100	5%	1/4W
R626	1-249-429-11	CARBON	10K	5%	1/4W
R627	1-247-807-31	CARBON	100	5%	1/4W
R628	1-249-429-11	CARBON	10K	5%	1/4W
R629	1-247-807-31	CARBON	100	5%	1/4W
R630	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R631	1-249-410-11	CARBON	270	5%	1/4W F
R632	1-249-411-11	CARBON	330	5%	1/4W
R633	1-249-413-11	CARBON	470	5%	1/4W F
R634	1-249-414-11	CARBON	560	5%	1/4W F
R642	1-249-415-11	CARBON	680	5%	1/4W F
R644	1-249-418-11	CARBON	1.2K	5%	1/4W F
R645	1-249-420-11	CARBON	1.8K	5%	1/4W F
R646	1-249-417-11	CARBON	1K	5%	1/4W F
R647	1-249-410-11	CARBON	270	5%	1/4W F
R648	1-249-411-11	CARBON	330	5%	1/4W
R649	1-249-413-11	CARBON	470	5%	1/4W F
R650	1-249-414-11	CARBON	560	5%	1/4W F
R652	1-249-437-11	CARBON	47K	5%	1/4W
R653	1-249-417-11	CARBON	1K	5%	1/4W F
R654	1-249-437-11	CARBON	47K	5%	1/4W
R655	1-249-417-11	CARBON	1K	5%	1/4W F
R656	1-249-438-11	CARBON	56K	5%	1/4W
R659	1-249-411-11	CARBON	330	5%	1/4W
R660	1-249-411-11	CARBON	330	5%	1/4W
R661	1-249-407-11	CARBON	150	5%	1/4W F
R662	1-249-407-11	CARBON	150	5%	1/4W F
R665	1-249-441-11	CARBON	100K	5%	1/4W
R666	1-249-441-11	CARBON	100K	5%	1/4W
R667	1-249-441-11	CARBON	100K	5%	1/4W
R680	1-249-411-11	CARBON	330	5%	1/4W
R681	1-249-440-11	CARBON	82K	5%	1/4W
R682	1-249-420-11	CARBON	1.8K	5%	1/4W F
R683	1-249-437-11	CARBON	47K	5%	1/4W
R684	1-249-440-11	CARBON	82K	5%	1/4W
R685	1-249-429-11	CARBON	10K	5%	1/4W
R686	1-249-410-11	CARBON	270	5%	1/4W F
R687	1-249-410-11	CARBON	270	5%	1/4W F
R688	1-249-413-11	CARBON	470	5%	1/4W F
R689	1-249-411-11	CARBON	330	5%	1/4W
R690	1-249-407-11	CARBON	150	5%	1/4W F
R699	1-249-429-11	CARBON	10K	5%	1/4W
		< SWITCH >			
S601	1-762-875-21	SWITCH, KEYBOARD (POWER)			
S602	1-762-875-21	SWITCH, KEYBOARD (POWER SAVE/DEMO (STAND BY))			
S603	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S604	1-762-875-21	SWITCH, KEYBOARD (SPECTRUM ANALYZER)			
S612	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
S614	1-762-875-21	SWITCH, KEYBOARD (SYNC EQ)			
S615	1-762-875-21	SWITCH, KEYBOARD (SYNC BASS)			
S617	1-762-875-21	SWITCH, KEYBOARD (DAIL)			
S618	1-762-875-21	SWITCH, KEYBOARD (REC)			
S619	1-762-875-21	SWITCH, KEYBOARD (SLEEP)			
S620	1-762-875-21	SWITCH, KEYBOARD (CLOCK SET)			
S632	1-762-875-21	SWITCH, KEYBOARD (MIX GUITAR/KARAOKE)			
S635	1-762-875-21	SWITCH, KEYBOARD (SURROUND)			
		< VIBRATOR >			
X601	1-781-312-11	VIBRATOR, CERAMIC 12.5MHz			

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PANEL VR

Ref. No.	Part No.	Description				Remark
	A-4428-142-A	PANEL VR BOARD, COMPLETE (LX9AV)				
		**********				
	A-4428-130-A	PANEL VR BOARD, COMPLETE				
						(LX10AV,LX90AV)
		**********				
		< CAPACITOR >				
C701	1-162-600-11	CERAMIC	0.0047uF	30.00%	16V	
C702	1-162-301-11	CERAMIC	0.0015uF	30.00%	16V	
C703	1-162-302-11	CERAMIC	0.0022uF	30.00%	16V	
C704	1-104-664-11	ELECT	47uF	20.00%	16V	
C708	1-104-665-11	ELECT	100uF	20.00%	10V	
C709	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C710	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	
C711	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	
		< CONNECTOR >				
* CN701	1-568-864-11	SOCKET, CONNECTOR 21P				
		< DIODE >				
D606	8-719-058-03	DIODE	SEL5423E-TP15			(TUNER/BAND)
D607	8-719-058-04	DIODE	SEL5223S-TP15			(ENTER/NEXT)
D611	8-719-058-04	DIODE	SEL5223S-TP15 (GROOVE)			
D612	8-719-058-04	DIODE	SEL5223S-TP15			(SUPER WOOFER)
D613	8-719-057-97	DIODE	SEL5923A-TP15			(PRO LOGIC)
D614	8-719-057-97	DIODE	SEL5923A-TP15			(DVD 5.1CH)
D616	8-719-058-04	DIODE	SEL5223S-TP15 (ENTER)			
D618	8-719-058-04	DIODE	SEL5223S-TP15 (EFFECT)			
D619	8-719-301-60	DIODE	SEL2910A-C-TP2 (MEUN 2)			
D620	8-719-301-60	DIODE	SEL2910A-C-TP2 (MENU 1)			
D621	8-719-301-60	DIODE	SEL2910A-C-TP2 (P.FILE)			
D623	8-719-301-60	DIODE	SEL2910A-C-TP2 (FILE 5)			
D624	8-719-301-60	DIODE	SEL2910A-C-TP2 (FILE 4)			
D625	8-719-301-60	DIODE	SEL2910A-C-TP2 (FILE 3)			
D626	8-719-301-60	DIODE	SEL2910A-C-TP2 (FILE 2)			
D627	8-719-301-60	DIODE	SEL2910A-C-TP2 (FILE 1)			
D698	8-719-057-97	DIODE	SEL5923A-TP15			(PRO LOGIC)
D699	8-719-057-97	DIODE	SEL5923A-TP15			(DVD 5.1CH)
		< IC >				
IC701	8-759-567-59	IC NJU3716L				
IC702	8-759-459-86	IC NJL64H400A				
		< COIL >				
L704	1-410-509-11	INDUCTOR	10uH			
		< RESISTOR >				
R724	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R725	1-247-843-11	CARBON	3.3K	5%	1/4W	
R726	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R727	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R728	1-249-429-11	CARBON	10K	5%	1/4W	
R729	1-249-431-11	CARBON	15K	5%	1/4W	
R730	1-249-434-11	CARBON	27K	5%	1/4W	
R731	1-249-438-11	CARBON	56K	5%	1/4W	
R732	1-247-804-11	CARBON	75	5%	1/4W	
R733	1-249-407-11	CARBON	150	5%	1/4W	F
R734	1-249-429-11	CARBON	10K	5%	1/4W	
R735	1-249-393-11	CARBON	10	5%	1/4W	F
R736	1-249-393-11	CARBON	10	5%	1/4W	F
R737	1-249-393-11	CARBON	10	5%	1/4W	F
R738	1-247-807-31	CARBON	100	5%	1/4W	
R739	1-247-807-31	CARBON	100	5%	1/4W	
R740	1-247-807-31	CARBON	100	5%	1/4W	
R741	1-249-393-11	CARBON	10	5%	1/4W	F
R742	1-249-393-11	CARBON	10	5%	1/4W	F
R743	1-249-393-11	CARBON	10	5%	1/4W	F
R744	1-249-401-11	CARBON	47	5%	1/4W	F
R750	1-249-393-11	CARBON	10	5%	1/4W	F
R751	1-249-393-11	CARBON	10	5%	1/4W	F
R761	1-249-411-11	CARBON	330	5%	1/4W	
R762	1-249-413-11	CARBON	470	5%	1/4W	F
R763	1-249-414-11	CARBON	560	5%	1/4W	F
R764	1-249-415-11	CARBON	680	5%	1/4W	F
R765	1-249-429-11	CARBON	10K	5%	1/4W	
R766	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R767	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R768	1-249-417-11	CARBON	1K	5%	1/4W	F
R769	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R772	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R773	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R775	1-249-431-11	CARBON	15K	5%	1/4W	
R776	1-247-843-11	CARBON	3.3K	5%	1/4W	
R777	1-249-407-11	CARBON	150	5%	1/4W	F
R778	1-249-407-11	CARBON	150	5%	1/4W	F
R779	1-249-403-11	CARBON	68	5%	1/4W	F
R780	1-249-403-11	CARBON	68	5%	1/4W	F
R782	1-249-407-11	CARBON	150	5%	1/4W	F
R784	1-249-407-11	CARBON	150	5%	1/4W	F
R785	1-249-407-11	CARBON	150	5%	1/4W	F
R786	1-249-407-11	CARBON	150	5%	1/4W	F
R787	1-249-407-11	CARBON	150	5%	1/4W	F
R789	1-249-407-11	CARBON	150	5%	1/4W	F
R790	1-249-407-11	CARBON	150	5%	1/4W	F
R791	1-249-407-11	CARBON	150	5%	1/4W	F
R792	1-249-407-11	CARBON	150	5%	1/4W	F
R793	1-249-407-11	CARBON	150	5%	1/4W	F
R794	1-249-417-11	CARBON	1K	5%	1/4W	F
R795	1-249-417-11	CARBON	1K	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV750	1-225-739-11	RES, VAR CARBON 50K (MIC LEVEL)				
RV751	1-225-739-11	RES, VAR CARBON 50K (GUITAR LEVEL)				
		< SWITCH >				
S605	1-762-875-21	SWITCH, KEYBOARD (PTY) (LX9AV)				
S606	1-762-875-21	SWITCH, KEYBOARD (TUNING MODE)				
S607	1-762-875-21	SWITCH, KEYBOARD (STEREO/MONO)				

Ref. No.	Part No.	Description	Remark
S608	1-762-875-21	SWITCH, KEYBOARD (ENTER/NEXT)	
S609	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)	
S610	1-762-875-21	SWITCH, KEYBOARD (TUNING +)	
S611	1-762-875-21	SWITCH, KEYBOARD (TUNING -)	
S613	1-762-875-21	SWITCH, KEYBOARD (TUNER MEMORY)	
S621	1-762-875-21	SWITCH, KEYBOARD (DOWN)	
S622	1-762-875-21	SWITCH, KEYBOARD (RIGHT)	
S623	1-762-875-21	SWITCH, KEYBOARD (UP)	
S624	1-762-875-21	SWITCH, KEYBOARD (LEFT)	
S626	1-762-875-21	SWITCH, KEYBOARD (GROOVE)	
S627	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER)	
S628	1-762-875-21	SWITCH, KEYBOARD (SUPER WOOFER MODE)	
S629	1-762-875-21	SWITCH, KEYBOARD (PRO LOGIC)	
S630	1-762-875-21	SWITCH, KEYBOARD (DVD 5.1CH)	
S633	1-762-875-21	SWITCH, KEYBOARD (ENTER)	
S634	1-762-875-21	SWITCH, KEYBOARD (GEQ CTRL)	
S636	1-762-875-21	SWITCH, KEYBOARD (EFFECT)	
S637	1-762-875-21	SWITCH, KEYBOARD (P FILE MEMORY)	
S701	1-473-392-11	ENCODER, ROTARY (VOLUME)	
**********			
	1-676-268-11	SUB TRANS BOARD (LX9AV,LX90AV)	
		**********	
		< CAPACITOR >	
⚠C901	1-113-925-11	CERAMIC 0.01uF 20.00% 250V	
		< CONNECTOR >	
CN901	1-564-321-00	PIN, CONNECTOR 2P	
* CN902	1-564-321-21	PIN, CONNECTOR 2P	
		< DIODE >	
D901	8-719-991-33	DIODE 1SS133T-77	
		< RELAY >	
⚠RY901	1-755-276-11	RELAY, POWER	
		< TRANSFORMER >	
⚠T901	1-435-240-11	TRANSFORMER, POWER (LX9AV)	
⚠T901	1-435-241-11	TRANSFORMER, POWER (LX90AV)	
**********			
*	1-659-058-13	TABLE SENSOR BOARD	
		**********	
		< IC >	
IC202	8-749-924-18	PHOTO INTERRUPTER RPI-1391	
		< RESISTOR >	
R207	1-249-416-11	CARBON 820 5% 1/4W	
**********			
	1-676-274-11	TC-A BOARD	
		**********	
		< DIODE >	
D631	8-719-058-03	LED SEL5423E-TP15 (◁)	
D632	8-719-058-03	LED SEL5423E-TP15 (▷)	
		< RESISTOR >	
R700	1-249-410-11	CARBON 270 5% 1/4W	
R701	1-249-411-11	CARBON 330 5% 1/4W	
R702	1-249-413-11	CARBON 470 5% 1/4W	
R703	1-249-414-11	CARBON 560 5% 1/4W	
R704	1-249-415-11	CARBON 680 5% 1/4W	
R705	1-249-417-11	CARBON 1K 5% 1/4W	
R706	1-249-418-11	CARBON 1.2K 5% 1/4W	
R707	1-247-804-11	CARBON 75 5% 1/4W	
R708	1-247-804-11	CARBON 75 5% 1/4W	
		< SWITCH >	
S641	1-762-875-21	SWITCH, KEYBOARD (◁)	
S642	1-762-875-21	SWITCH, KEYBOARD (▷)	
S643	1-762-875-21	SWITCH, KEYBOARD (■)	
S644	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶I ◀◀)	
S645	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶I ▶▶)	
S646	1-762-875-21	SWITCH, KEYBOARD (DOLBY NR)	
S647	1-762-875-21	SWITCH, KEYBOARD (DIRECTION)	
**********			
	1-676-275-11	TC-B BOARD	
		**********	
		< DIODE >	
D635	8-719-058-03	LED SEL5423E-TP15 (◁)	
D636	8-719-058-03	LED SEL5423E-TP15 (▷)	
D637	8-719-057-97	LED SEL5923A-TP15 (▮▮)	
D638	8-719-058-04	LED SEL5223S-TP15 (● REC)	
		< RESISTOR >	
R711	1-249-415-11	CARBON 680 5% 1/4W	
R712	1-249-417-11	CARBON 1K 5% 1/4W	
R713	1-249-418-11	CARBON 1.2K 5% 1/4W	
R714	1-249-414-11	CARBON 560 5% 1/4W	
R715	1-249-415-11	CARBON 680 5% 1/4W	
R716	1-249-417-11	CARBON 1K 5% 1/4W	
R717	1-249-418-11	CARBON 1.2K 5% 1/4W	
R718	1-249-420-11	CARBON 1.8K 5% 1/4W	
R719	1-249-422-11	CARBON 2.7K 5% 1/4W	
R720	1-247-804-11	CARBON 75 5% 1/4W	
R721	1-247-804-11	CARBON 75 5% 1/4W	
R722	1-247-807-31	CARBON 100 5% 1/4W	
R723	1-249-407-11	CARBON 150 5% 1/4W	
		< SWITCH >	
S651	1-762-875-21	SWITCH, KEYBOARD (▷)	
S652	1-762-875-21	SWITCH, KEYBOARD (◁)	
S653	1-762-875-21	SWITCH, KEYBOARD (■)	
S654	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶I ◀◀)	
S655	1-762-875-21	SWITCH, KEYBOARD (I◀◀ AMS ▶▶I ▶▶)	
S656	1-762-875-21	SWITCH, KEYBOARD (▮▮)	
S657	1-762-875-21	SWITCH, KEYBOARD (● REC)	
S658	1-762-875-21	SWITCH, KEYBOARD (H SPEED DUB)	
S659	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)	
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

TRANS | SURROUND AMP

Ref. No.	Part No.	Description			Remark
	1-676-267-11	TRANS BOARD			
		**********			
	1-533-233-31	HOLDER, FUSE			
	7-685-646-79	SCREW+BVTP	3X8	TYPE2 N-S	
		< CAPACITOR >			
C834	1-130-777-00	MYLAR	0.1uF	10.00% 100V	
C893	1-130-777-00	MYLAR	0.1uF	10.00% 100V	
C961	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	
C963	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	
		< CONNECTOR >			
CN905	1-564-321-00	PIN, CONNECTOR 2P		(LX10AV)	
* CN951	1-564-214-11	PIN, CONNECTOR (B3PS-VH) 3P			
* CN952	1-564-524-11	PLUG, CONNECTOR 9P(LX9AV,LX90AV)			
* CN952	1-564-526-11	PLUG, CONNECTOR 11P (LX10AV)			
		< DIODE >			
D832	8-719-510-68	DIODE	D5SBA204101		
		< FUSE >			
⚠F951	1-532-505-31	FUSE 5.0A (LX10AV:SP,MY,EA,AUS)			
⚠F951	1-532-506-31	FUSE 6.3A (LX10AV:E,MX,AR)			
⚠F961	1-532-506-31	FUSE 6.3A (LX9AV)			
⚠F961	1-533-310-11	FUSE 6.3A, GLASS CYLINDRICAL(DIA.5)			(LV90AV)
⚠F961	1-533-949-31	FUSE 8.0A, CYLINDERICAL (TIME LUG)			(LX10AV)
⚠F962	1-532-506-31	FUSE 6.3A (LX9AV)			
⚠F962	1-533-310-11	FUSE 6.3A, GLASS CYLINDRICAL(DIA.5)			(LV90AV)
⚠F962	1-533-949-31	FUSE 8.0A, CYLINDERICAL (TIME LUG)			(LX10AV)
⚠F963	1-532-505-31	FUSE 5.0A (LX9AV)			
⚠F963	1-532-506-31	FUSE 6.3A (LX10AV)			
⚠F963	1-533-420-11	FUSE 5.0A, GLASS CYLINDRICAL(DIA.5)			(LX90AV)
⚠F964	1-532-505-31	FUSE 5.0A (LX9AV)			
⚠F964	1-532-506-31	FUSE 6.3A (LX10AV)			
⚠F964	1-533-420-11	FUSE 5.0A, GLASS CYLINDRICAL(DIA.5)			(LX90AV)
		< RESISTOR >			
⚠R951	1-219-122-91	FUSIBLE	0.33	5% 1/4W	
⚠R952	1-219-122-91	FUSIBLE	0.33	5% 1/4W	
⚠R953	1-219-119-81	FUSIBLE	0.1	5% 1/4W	
		< SWITCH >			
⚠S901	1-771-291-11	SWITCH, POWER (VOLTAGE SELECTOR)			(LX10AV:E,EA,AR,MY,SP)
**********					
	A-4428-132-A	SURROUND AMP BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-128-582-11	ELECT	10uF	20.00% 100V	
C102	1-162-292-31	CERAMIC	680PF	10% 50V	
C103	1-162-286-21	CERAMIC	220PF	10.00% 50V	
C104	1-126-967-11	ELECT	47uF	20.00% 50V	
C105	1-136-165-00	MYLAR	0.1uF	5.00% 50V	
C106	1-136-165-00	MYLAR	0.1uF	5.00% 50V	
C107	1-128-560-11	ELECT	22uF	20.00% 100V	
C108	1-136-495-11	MYLAR	0.068uF	5.00% 50V	
C109	1-136-495-11	MYLAR	0.068uF	5.00% 50V	
C113	1-161-494-00	CERAMIC	0.022uF	25V	
C114	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C151	1-128-582-11	ELECT	10uF	20.00% 100V	
C152	1-162-292-31	CERAMIC	680PF	10% 50V	
C153	1-162-286-21	CERAMIC	220PF	10.00% 50V	
C154	1-126-967-11	ELECT	47uF	20.00% 50V	
C157	1-128-560-11	ELECT	22uF	20.00% 100V	
C158	1-136-495-11	MYLAR	0.068uF	5.00% 50V	
C159	1-136-495-11	MYLAR	0.068uF	5.00% 50V	
C181	1-128-582-11	ELECT	10uF	20.00% 100V	
C182	1-162-292-31	CERAMIC	680PF	10% 50V	
C183	1-162-286-21	CERAMIC	220PF	10.00% 50V	
C184	1-126-967-11	ELECT	47uF	20.00% 50V	
C188	1-136-495-11	MYLAR	0.068uF	5.00% 50V	
C189	1-136-495-11	MYLAR	0.068uF	5.00% 50V	
C801	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	
C802	1-162-215-31	CERAMIC	47PF	5% 50V	
C803	1-126-960-11	ELECT	1uF	20.00% 50V	
C804	1-126-959-11	ELECT	0.47uF	20.00% 50V	
C805	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C806	1-162-215-31	CERAMIC	47PF	5% 50V	
C810	1-162-286-21	CERAMIC	220PF	10.00% 50V	
C813	1-137-150-11	MYLAR	0.01uF	5.00% 50V	
C814	1-162-215-31	CERAMIC	47PF	5% 50V	
C815	1-162-215-31	CERAMIC	47PF	5% 50V	
C816	1-126-961-11	ELECT	2.2uF	20.00% 50V	
C817	1-126-961-11	ELECT	2.2uF	20.00% 50V	
C818	1-162-215-31	CERAMIC	47PF	5% 50V	
C819	1-162-282-31	CERAMIC	100PF	10% 50V	
C821	1-104-664-11	ELECT	47uF	20.00% 16V	
C822	1-104-664-11	ELECT	47uF	20.00% 16V	
C836	1-162-306-11	CERAMIC	0.01uF	30.00% 16V	
		< CONNECTOR >			
CN101	1-691-772-11	PLUG (MICRO CONNECTOR) 10P			
CN813	1-785-320-11	PIN, CONNECTOR (STRAIGHT) 8P			
		< DIODE >			
D101	8-719-991-33	DIODE	1SS133T-77		
D151	8-719-991-33	DIODE	1SS133T-77		
D191	8-719-991-33	DIODE	1SS133T-77		
		< EARTH >			
* EPT802	1-537-738-21	TERMINAL, EARTH			
		< FILTER >			
FL801	1-424-228-11	FILTER, NOISE			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
		< IC >			
IC101	8-749-017-19	IC STK443-050			
IC850	8-759-634-50	IC M5218AL			
IC852	8-759-634-50	IC M5218AL			
		< JACK >			
J801	1-770-226-41	JACK (LARGE TYPE)			
J802	1-770-226-41	JACK (LARGE TYPE)			
		< TRANSISTOR >			
Q101	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q103	8-729-140-82	TRANSISTOR	2SA988TP-PAFAEA		
Q104	8-729-620-05	TRANSISTOR	2SC2603TP-EF		
Q151	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
Q181	8-729-140-84	TRANSISTOR	2SC1841TP-PAFAEA		
		< RESISTOR >			
R101	1-249-417-11	CARBON	1K	5%	1/4W F
R102	1-249-437-11	CARBON	47K	5%	1/4W
R103	1-249-411-11	CARBON	330	5%	1/4W
⚠R107	1-212-881-11	FUSIBLE	100	5%	1/4W
⚠R108	1-220-755-11	METAL	0.22	10%	2W
R109	1-260-076-11	CARBON	10	5%	1/2W
R110	1-249-437-11	CARBON	47K	5%	1/4W
R111	1-249-417-11	CARBON	1K	5%	1/4W F
R112	1-249-431-11	CARBON	15K	5%	1/4W
R113	1-249-441-11	CARBON	100K	5%	1/4W
R114	1-249-421-11	CARBON	2.2K	5%	1/4W F
R115	1-247-863-91	CARBON	22K	5%	1/4W
R116	1-249-429-11	CARBON	10K	5%	1/4W
R117	1-249-421-11	CARBON	2.2K	5%	1/4W F
R119	1-249-439-11	CARBON	68K	5%	1/4W
⚠R120	1-217-637-00	FUSIBLE	1	5%	1/4W
R121	1-247-863-91	CARBON	22K	5%	1/4W
⚠R128	1-220-755-11	METAL	0.22	10%	2W
R130	1-249-435-11	CARBON	33K	5%	1/4W
⚠R138	1-220-755-11	METAL	0.22	10%	2W
R151	1-249-417-11	CARBON	1K	5%	1/4W F
R152	1-249-437-11	CARBON	47K	5%	1/4W
R153	1-249-410-11	CARBON	270	5%	1/4W F
⚠R157	1-212-881-11	FUSIBLE	100	5%	1/4W
⚠R158	1-220-755-11	METAL	0.22	10%	2W
R159	1-260-076-11	CARBON	10	5%	1/2W
R160	1-249-437-11	CARBON	47K	5%	1/4W
R161	1-249-417-11	CARBON	1K	5%	1/4W F
R162	1-249-431-11	CARBON	15K	5%	1/4W
R163	1-249-441-11	CARBON	100K	5%	1/4W
⚠R168	1-220-755-11	METAL	0.22	10%	2W
R181	1-249-417-11	CARBON	1K	5%	1/4W F
R182	1-249-437-11	CARBON	47K	5%	1/4W
R183	1-249-411-11	CARBON	330	5%	1/4W
⚠R188	1-220-755-11	METAL	0.22	10%	2W
R189	1-260-076-11	CARBON	10	5%	1/2W
R190	1-249-437-11	CARBON	47K	5%	1/4W
R191	1-249-417-11	CARBON	1K	5%	1/4W F
R192	1-249-431-11	CARBON	15K	5%	1/4W
R193	1-249-441-11	CARBON	100K	5%	1/4W
R806	1-247-903-00	CARBON	1M	5%	1/4W
R807	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W F
R850	1-249-417-11	CARBON	1K	5%	1/4W F
R852	1-249-441-11	CARBON	100K	5%	1/4W
R853	1-249-417-11	CARBON	1K	5%	1/4W F
R854	1-249-437-11	CARBON	47K	5%	1/4W
R855	1-249-429-11	CARBON	10K	5%	1/4W
R856	1-247-891-00	CARBON	330K	5%	1/4W
R857	1-249-417-11	CARBON	1K	5%	1/4W F
R869	1-249-434-11	CARBON	27K	5%	1/4W
R870	1-247-903-00	CARBON	1M	5%	1/4W
R871	1-249-417-11	CARBON	1K	5%	1/4W F
R872	1-249-421-11	CARBON	2.2K	5%	1/4W F
R873	1-249-417-11	CARBON	1K	5%	1/4W F
R874	1-249-417-11	CARBON	1K	5%	1/4W F
		MISCELLANEOUS			
		**********			
3	1-773-009-11	WIRE(FLAT TYPE) (15 CORE			
4	1-693-484-11	TUNER(FM/AM) (LX10AV:E)			
4	1-693-486-11	TUNER(FM/AM) (LX90AV)			
4	1-693-488-11	TUNER(FM/AM) (LX10AV:EA,MX,AR,MY,SP,AUS)			
4	1-693-490-11	TUNER(FM/AM) (LX9AV)			
6	1-535-706-21	PLUG,JUMPER (LX9AV,LX10AV:MX,LX90AV)			
M901	1-763-072-11	FAN, D.C.(LX10AV)			
72	1-773-056-11	WIRE(FLAT TYPE) (17 CORE)			
73	1-773-032-11	WIRE(FLAT TYPE) (15 CORE)			
117	1-751-688-11	WIRE (FLAT TYPE) (13 CORE)			
119	1-773-150-11	WIRE (FLAT TYPE) (21 CORE)			
151	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)			
⚠159	1-777-071-51	CORD, POWER (AEP,UK,CIS,MY,EA)			
⚠159	1-783-820-11	CORD, POWER (US)			
⚠159	1-783-941-11	CORD, POWER (AR)			
⚠159	1-696-847-11	CORD, POWER (Australian)			
⚠159	1-791-901-11	CORD, POWER (E,MX)			
⚠160	1-569-007-11	ADAPTOR, CONVERSION 2P (E)			
⚠160	1-569-008-21	ADAPTOR, CONVERSION 2P (EA,MY,SP)			
⚠160	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)			
⚠T951	1-435-247-11	TRANSFORMER, POWER (LX9AV)			
⚠T951	1-435-248-11	TRANSFORMER, POWER (LX90AV)			
⚠T951	1-435-249-11	TRANSFORMER, POWER (LX10AV)			
		**********			
		HARDWARE LIST			
		**********			
#1	7-685-871-01	SCREW +BVTT 3X6 (S)			
#2	7-685-872-09	SCREW +BVTT 3X8 (S)			
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3			
#5	7-685-881-09	SCREW +BVTT 4X8 (S)			
#11	7-685-851-04	SCREW +BVTT 2X4 (S)			
#12	7-628-254-15	SCREW +PS 2.6X6			
#13	7-628-254-50	SCREW +PS 2.6X16			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

9-929-201-11

Sony Corporation
Home Audio Division Company

2000C1681-1
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SS-LV80/LV100AV/LX7/LX8/LX8G/ LX9AVG/LX10AV/LX10AVG

SERVICE MANUAL

Ver 1.0 2000.2

Photo: SS-LV80

AEP Model
UK Model
SS-LX7/LX9AVG
E Model
SS-LV80/LV100AV/LX8/LX8G/ LX10AV/LX10AVG
Australian Model
SS-LX8G/LX100AVG

- This set is the speaker system in LBT-LV80/LV100AV/LX7/LX8/LX9AV/ LX10AV/LX70.

SPECIFICATIONS

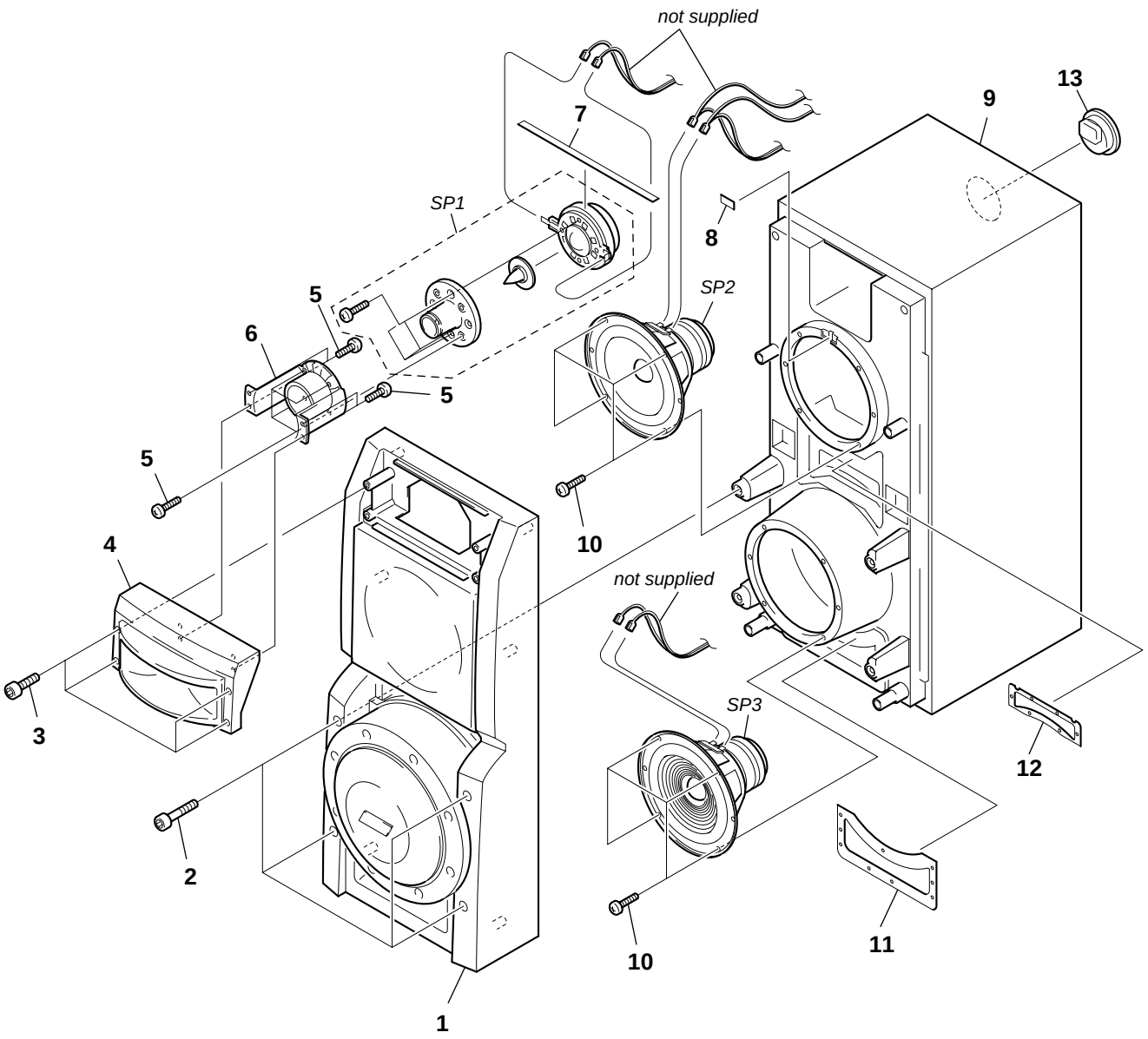
Speaker system	3-way BUILT IN SW, magnetically shielded type
Speaker units	
Super Woofer/Woofer:	20 cm dia., cone type
Tweeter:	2.5 cm dia., horn type
Rated impedance	4 Ω (LV80, LX8, LX8G) 6 Ω (LV100AV, LX7, LX9AVG, LV10AV, LX10AVG)
Dimensions (w/h/d)	Approx. 290 × 615 × 435 mm
Mass	Approx. 16 kg net per speaker

Design and specifications are subject to change without notice

SPEAKER SYSTEM

SONY®

EXPLODED VIEW AND PARTS LIST



Ref. No.	Part No.	Description	Remarks
1	X-4952-678-1	PANEL ASSY, FRONT (LV80,LV100AV,LX7,LX8,LX10AV)	
1	X-4952-965-1	PANEL ASSY, FRONT (LX8G,LX9AVG,LX10AVG)	
2	4-227-041-01	SCREW(L40), SOCKET TAPPING	
3	4-999-101-01	SCREW, HEXAGON HOLE TAPPING	
4	4-227-032-01	HORN,TW.	
5	4-874-614-31	SCREW(4) (3.5X12), TAPPING	
6	4-227-036-01	BRACKET	
7	4-226-967-01	PACKING (TW)	
8	4-942-029-01	PACKING	
9	A-4412-012-A	CABINET ASSY, SPEAKER	
10	7-685-148-19	SCREW +BVTP 4X10 TYPE2 N-S	
11	4-227-040-01	PACKING, BOTTOM	
12	4-227-039-01	PACKING, TOP	
13	1-537-332-11	TERMINAL BOARD	
SP1	1-529-607-11	SPEAKER (2.5cm)	
SP2	1-529-608-11	SPEAKER (18cm)	
SP3	1-529-609-11	SPEAKER (18cm)(LV80,LX8,LX8G)	
SP3	1-529-654-11	SPEAKER (18cm) (LV100AV,LX7,LX9AVG,LX10AV,LX10AVG)	
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-775-512-21	CORD, SPEAKER CONNECTION	
	4-210-254-01	CUSHION (FOOT)	
	4-228-574-11	MANUAL, INSTRUCTION(ENGLISH)	

Sony Corporation
Home Audio Division Company

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Published by Quality Assurance Dept.

SS-CT200/CT200G/RC200/ RC200G/RS200/RS200G

SERVICE MANUAL

Ver 1.0 2000.3

US Model
Canadian Model
SS-CT200G/RC200G/RS200G
AEP Model
UK Model
E Model
Australian Model
SS-CT200/RC200/RS200

Photo: SS-CT200

Photo: SS-RS200

- This set is the speaker system in LBT-LV100AV/LX9AV/LX10AV/LX90AV.

- The SS-RC200/RC200G system consists of one unit of SS-CT200/CT200G and two units of SS-RS200/RS200G.

SPECIFICATIONS

Center speaker:
SS-CT200/CT200G

Speaker system	Full-range, bass-reflex type, magnetically shielded type
Speaker units	
Full range	10 cm dia., cone type (2)
Rated impedance	8 Ω
Dimensions (w/h/d)	Approx. 360 × 130 × 170 mm
Mass	Approx. 2.5 kg

Rear speaker:
SS-RS200/RS200G

Speaker system	Full-range, bass-reflex type
Speaker units	
Full range	10 cm dia., cone type
Rated impedance	8 Ω
Dimenstions (w/h/d)	Approx. 180 × 130 × 170
Mass	Approx. 1.5 net per speaker

Design and specifications are subject to change without notice.

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-751-347-11	CORD, CONNECTION	
	1-769-433-21	CORD, SPEAKER	
	3-701-623-00	BAG, POLYETHYLENE	
	4-972-322-01	FOOT (Y)	

SPEAKER SYSTEM

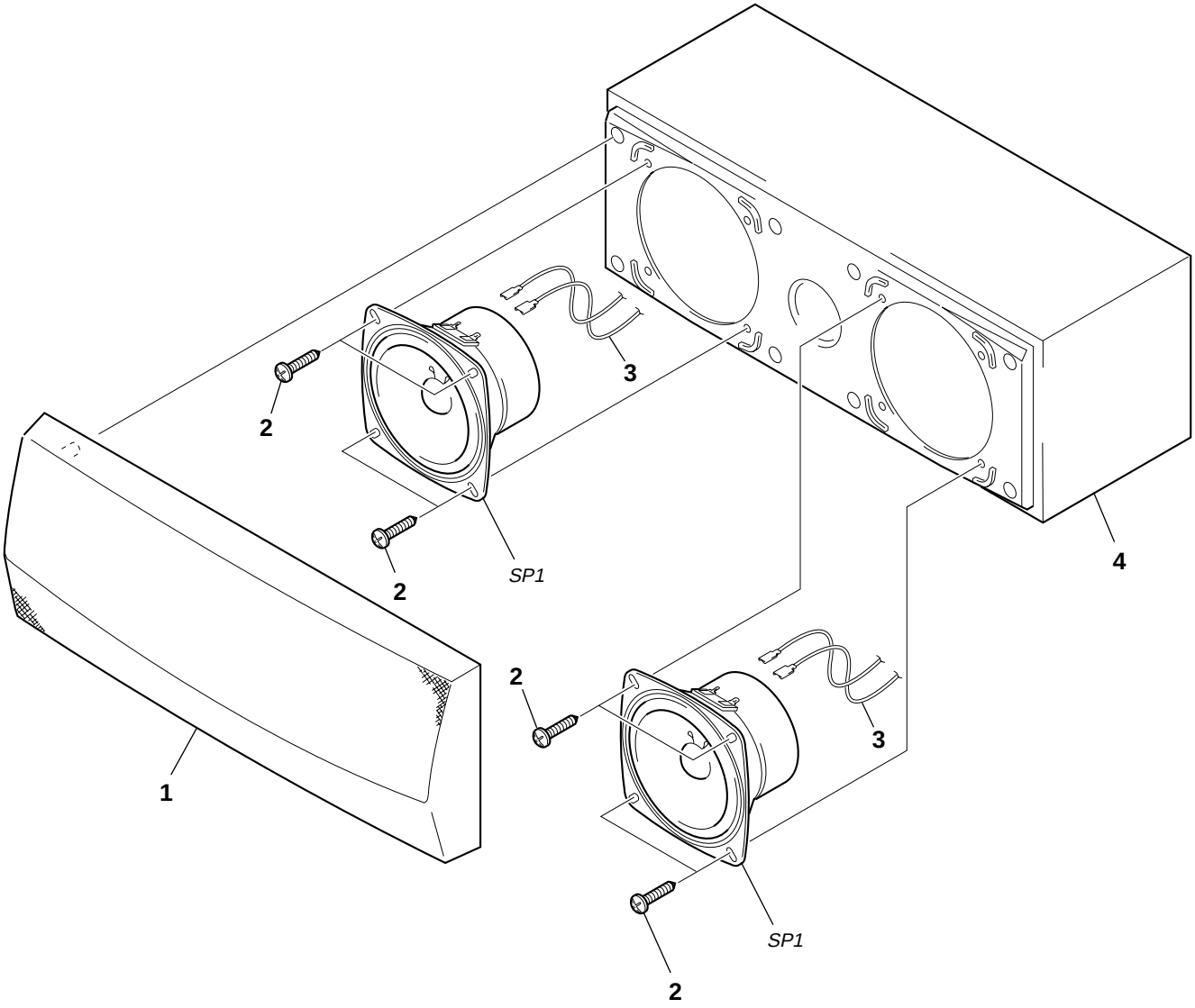
SONY®

EXPLODED VIEW AND PARTS LIST

NOTE:

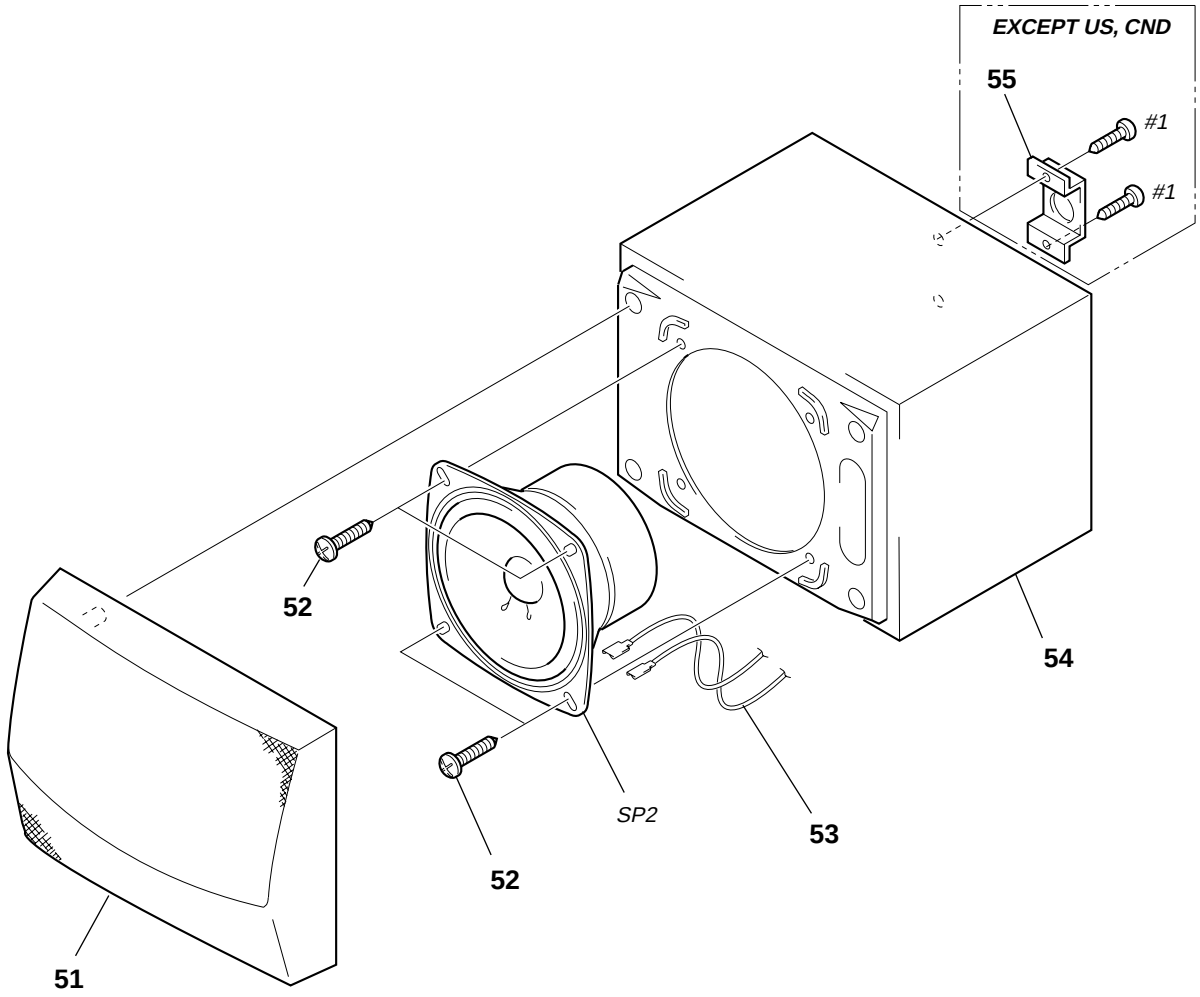
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbrevation
  CND : Canadian model

(1) SS-CT200/CT200G



Ref. No.	Part No.	Description	Remarks
1	X-4952-768-1	FRAME ASSY, GRILLE (EXCEPT US,CND)	
1	X-4952-774-1	FRAME ASSY, GRILLE (US,CND)	
2	4-874-614-11	SCREW+BVTP 3.5X14	
3	1-792-488-11	CORD,CONNECTION	
4	A-4412-238-A	CABINET ASSY, SPEAKER	
SP1	1-529-658-11	SPEAKER (10cm)	

(2) SS-RS200/RS200G



Ref. No.	Part No.	Description	Remarks
51	X-4951-360-1	FRAME ASSY, GRILLE (US,CND)	
51	X-4952-769-1	FRAME ASSY, GRILLE (EXCEPT US,CND)	
52	4-874-614-11	SCREW +BVTP 3.5X14	
53	1-775-758-11	LEAD(WITH CONNECTOR)	
54	A-4412-239-A	CABINET ASSY, SPEAKER	
55	4-983-074-01	BRACKET, HOOK (EXCEPT US,CND)	
SP2	1-529-346-11	SPEAKER (10cm)	
#1	7-685-648-79	SCREW +P 3X12 TYPE2 NON-SLIT	

9-929-099-11

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